

D 101-1115-3431-204-20P

TM 5-3431-204-20P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

**WELDING MACHINE, ARC; GENERATOR; GASOLINE
ENGINE DRIVEN; SINGLE OPERATOR; REMOTE CONTROL;
300 AMP, DC, ARC; SKID MTD; 60 AMP AT 20 V MIN,
375 AMP AT 40 V MAX CURRENT; DC 115 V, 3 KW
AUXILIARY POWER: MIL SPEC W-13768 (HOBART
MODELS) (HOBART MODEL GH-3153)**

FSN 3431-351-9209

(HOBART MODEL GH-3153-S)

FSN 3431-239-8186

This copy is a reprint which includes current
pages from Change 1.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
JANUARY 1963**

TM 5-3431-204-20P

C 1

**CHANGE }
NO. 1 }**

**HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 21 February 1968**

**Organizational Maintenance Repair Parts and Special Tool
Lists**

**WELDING MACHINE, ARC; GENERATOR; GASOLINE ENGINE DRIVEN;
SINGLE OPERATOR; REMOTE CONTROL; 300 AMP, DC, ARC; SKID
MOUNTED; 60 AMP AT 20V MIN., 375 AMP AT 40V MAX. CURRENT
DC, 115V, 3KW AUXILIARY POWER
(MIL SPEC W, 13768 HOBART MODELS)
(HOBART MODEL GH-3153)
FSN 3431-351-9209
(HOBART MODEL GH-3153-S)
FSN 3431-239-8186**

TM 5-3431-204-20P, 29 January 1963, is changed as follows: Cover and title page is changed as above. Change date on cover page to read January 1963.

Page vi, table 1, Prescribed Load Listing. In line item 2, change FSN from 2920-248-1618 to 2920-516-6778 and change manufacturer's code and part number from (19728) AR4S to (70040) SR44E.

In line 3, change FSN from 2920-294-3867 to 2920-817-8724 and change manufacturer's code from (19728) to (23040).

Page viii. Paragraph 5, Index to Federal Supply Code for Manufacturers. The following Federal supply codes are added to the list in proper numerical order:

23040..... Ford Motor Co., Parts and accessories
operation

86403..... Chrysler Corp, Parts Division

Paragraph 6 is superseded as follows:

6. Report of Equipment Publication Improvements

Report of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on a DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

All Federal stock numbers and reference numbers, additions, changes, and deletions should be made to indexes.

4 b5

By Order of the Secretary of the Army:

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25, Section I, requirements for organizational maintenance, welding equipment.

TECHNICAL MANUAL
No. 5-3431-204-20P }

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON 25, D.C., 29 January 1963

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

WELDING MACHINE, ARC: GENERATOR; GASOLINE ENGINE DRIVEN; SINGLE OPERATOR; REMOTE CONTROL; 300 AMP, DC, ARC; SKID MTD; 60 AMP AT 20 V MIN, 375 AMP AT 40 V MAX CURRENT; DC 115 V, 3 KW AUXILIARY POWER: MIL SPEC W-13768 (HOBART MODELS) (HOBART MODEL GH-3153) FSN 3431-351-9202 (HOBART MODEL GR-3153-S) FSN 3431-239-8186

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* This manual supersedes so much of Department of the Army Supply Manual ENG 7 & 8-5131, 19 October 1954, including C 2, 14 July 1959.

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SECTION I

INTRODUCTION

1. General

a. This manual lists the special tools and quantities of repair parts authorized and required to be stocked by organizational maintenance echelons as their prescribed load. Repair parts not authorized for stockage but which may be required to perform maintenance of the equipment are listed with no quantities shown. Information and data shown herein serve as requisitioning reference material, and as a guide to determine quantities of repair parts required for stockage.

b. Price information for stock-type repair parts may be obtained from applicable Department of the Army type 2-series supply manuals.

c. Repair parts lists are arranged as follows:

- (1) Individual parts and major assemblies are listed alphabetically by item name within the numbered functional groups.
- (2) Assembly components and subassemblies are indented and listed alphabetically by item name under major assemblies.
- (3) Bulk material and parts peculiar with more than one application are listed in either functional group 9501 or 9901.

d. Allowances are based on 1,500 hours operation per year.

e. Parts applicable to specific engines, serial number ranges, or models of this end item are indicated by a letter symbol in the description column, following the nomenclature. The symbols apply as follows:

- (A) Applies to Hobart Welding Machine Model GH-3153 W/Chrysler Model IND5A435 Engine.
- (B) Applies to Hobart Welding Machine Model GR-3153S W/Chrysler Model IND7A2M Engine.

Parts not symbolized or annotated are applicable to all end items.

2. Explanation of Repair Parts, Tool Lists, and Prescribed Load Listing (Table I).

a. *Source Codes.* This column is subdivided into four columns. The titles and information provided in each column are as follows:

- (1) *Technical service.* This column lists either the basic number of the technical service or code symbol of the supply center assigned supply responsibility for the part. Those spaces left blank denote Corps of Engineers supply responsibility. General Engineer supply parts are identified by the letters "GE" in parentheses, following the nomenclature in the description column. Other technical service basic numbers or supply center code symbols are:

3—Chemical Corps
9—Ordnance Corps
10—Quartermaster Corps
11—Signal Corps
55—Transportation Corps

(2) *Source.* The selection status and source of supply for each part are indicated by one of the following code symbols:

- (a) P—applied to high-mortality repair parts which are stocked in or supplied from the technical service depot system and authorized for use at indicated maintenance echelons.
- (b) P1—applied to repair parts which are low-mortality parts, stocked in or supplied from technical service depots, and authorized for installation at indicated maintenance echelons.
- (c) M—applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance echelons.
- (d) A—applied to assemblies which are not procured or stocked as such but made up of two or more units, each

of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance echelons.

- (e) X—applied to parts and assemblies which are not procured or stocked, the mortality of which is normally below that of the applicable end item, and the failure of which should result in retirement of the end item from service.
- (f) X1—applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of next higher assembly or component.
- (g) X2—applied to repair parts which are not stocked. The indicated maintenance echelon requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
- (h) C—applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of non-availability from local procurement.
- (i) G—applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at field maintenance level. These assemblies will not be stocked above field maintenance level or returned to depot supply level.
- (j) Z—applied to obsolete repair parts no longer stocked or procured.

(3) *Maintenance.*

- (a) The lowest maintenance echelon authorized to manufacture, assemble, and/or install the part is indicated by the code symbol:

O—Organizational Maintenance
(1st and 2d echelons).

Capabilities of higher maintenance echelons are considered equal or better.

- (b) This column is blank when components of kits or sets are listed that are not applicable to the item of equipment, or when an item is source coded X1.
- (4) *Recoverability.* Repair parts and/or tool and equipment items that are recoverable are indicated by one of the following code symbols:
 - (a) R—applied to repair parts and assemblies which are economically repairable at field maintenance activities (3d and 4th echelons) and are normally furnished by supply on an exchange basis. Items that can be economically repaired are considered nonexpendable.
 - (b) T—applied to high-dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
 - (c) U—applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high-dollar value reusable casings, castings, and the like.

Note. When no code is shown in the recoverability column, the part is considered expendable.

b. *Federal Stock Numbers.* When a Federal stock number is available for a part, it will be shown in this column and used for requisitioning purposes.

c. *Description.*

- (1) The item name and a brief description of the part are shown.
- (2) A five-digit Federal Supply Code for manufacturers and/or other technical services is shown in parentheses, fol-

lowed by the manufacturer's part number. This number will be used for requisitioning purposes when no Federal stock number is indicated in the Federal Stock Number column.

Example: (08645) 86453.

- (3) Repair part quantities included in kits, sets, and assemblies, that differ from the actual quantity used in this specific end item, are listed in parentheses.
- (4) When repair parts are source coded "C", the manufacturer's part number will be used for local procurement.

d. *Unit of Issue.* Where no abbreviation is shown in this column, the unit of issue is "each".

e. *Quantity Incorporated in Unit.* The actual number of parts used in the application indicated is shown in this column. A zero (0) is shown when components of kits or sets are listed that are not applicable to this specific end item.

f. *15-Day Organizational Maintenance Allowance.* Shown for each repair part is either a quantity or an asterisk (*) allocation which indicates the following:

- (1) A quantity is shown for each repair part authorized to be stocked as the prescribed load. This quantity is based on past experience with similar items and the latest mortality data for 1,500 hours operation per year. It is the average quantity required to provide organizational maintenance for 1-5 and/or 6-10 items of equipment for a 15-day period under average combat conditions.

Note. Combat essential items which must be stocked or on order at organizational maintenance at all times, regardless of demand, will be identified in the allowance column by a quantity in parentheses.

Table I is the prescribed load listing of items quantitatively allocated herein and lists the combat essential items required to support the end item of equipment. Repair parts required to perform organizational maintenance, which are not authorized for stockage, are identified by an asterisk

in section II, and are to be requisitioned for immediate use only.

- (2) The quantities listed in table I are for one prescribed load for a 15-day period. A minimum stockage sufficient to repair one item and/or assembly is authorized (e.g., if 3 belts are required, then 3 belts are allocated as the min stockage). This quantity will be indicated in the minimum stockage authorization column. The quantities contained in the prescribed load must be on hand or on order at all times. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads by the appropriate end item spread column of 1-5 or 6-10. When more than 10 equipments are authorized, multiply the quantity authorized in the 6-10 density spread column by the number of equipments and the number of prescribed loads, divide by 10, and round to the nearest whole number.

Example: If the density spread is 4, the number of equipments is 17, and the number of prescribed loads is 1, the following formula would be used:

$$4 \times 17 \times 1 \div 10 = 6.8$$

The resulting fraction is 0.8; therefore, the stockage is 7.

Example: If the density spread is 4, the number of equipments is 17, and the number of prescribed loads is 3, the following formula would be used:

$$4 \times 17 \times 3 \div 10 = 20.4$$

The resulting fraction is 0.4; therefore, the stockage is 20.

Note. An exception is made for those units and organizations required to have on hand, boxed or packaged prescribed load(s) pursuant to a special mission assignment. Such prescribed load(s) will be computed or selected separately from quantities authorized for stockage at permanent station.

- (3) Subsequent changes to allowances will be limited as follows:

- (a) No decrease in the stated quantity of combat essential items is authorized.

Table I. Prescribed Load Listing

Federal stock No.	Description	Functional group	Minimum stockage authorization	15-day organizational maintenance allowances	
				1-5	6-10
2910-145-0220	GASKET: carburetor body (71500) 121-69.	0301	....	....	1
2920-248- 26 18	SPARK PLUG (19728) AR4S.	(A)	0604	6	12
2920-294- 38 67	SPARK PLUG (19728) AR8S.	(B)	0604	6	12
2920-426-2010	ELEMENT, FILTER (81321) PD51.	0108	....	....	6
5310-141-1583	WASHER, FLAT: cover shoulder bolt, copper; 0.640 in. id., 0.750 in. od., 0.063 in. thk (81321) 30738.	0108	....	....	6
5330-246-2906	GASKET: air cleaner elbow (74865) 952062.	0304	....	....	1
5330-252-4078	WASHER, NONMETALLIC: fuel pump strainer bow, cork, 1 55/64 in. id., 2 19/64 in. od., 1/8 in. thk (70040) 1523096.	0302	....	....	1
5330-599-1285	WASHER, NONMETALLIC: filter cover, rubber; 4.375 in. id., 5.125 in. od., 0.068 in. thk (81321) 258027.	0108	....	....	6
5910-127-8448	CAPACITOR, FIXED, PAPER DIELECTRIC: generator exciter burs, No. F, νf , 0.1 (28835) DW5133A.	4414	....	....	(1)
5910-284-4087	CAPACITOR, FIXED, PAPER DIELECTRIC: generator brush holder, 0.25 νf (28835) DW5133AF.	4414	....	....	(1)
5910-666-8381	CAPACITOR, FIXED, PAPER DIELECTRIC: control panel (28835) DW5133AG.	4414	....	....	(1)

Table I. Prescribed Load Listing—Continued

Federal stock No.	Description	Functional group	Minimum stockage authorization	15-day organizational maintenance allowances	
				1-5	6-10
5910-669-3913	CAPACITOR, FIXED, PAPER DIELECTRIC: auxiliary control panel .1 μ f, 500 v, ac/dc (28835) DW5133AA.	4414	.....	.....	(1)
5930-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: .1 μ f, 100 V, dc (28835) DW5133AB.	9901	.....	.....	(1)

- (b) No change in the range of items is authorized. If exception to the prescribed load listing or revision to allowances is considered necessary, a recommendation should be forwarded to the U.S. Army Mobility Support Center (par. 6).
- (c) Decreases in the stated quantity of items other than combat essential items are authorized to a minimum quantity of one and increases in the stated quantity are authorized for all items when justified by demand and usage experience. Detailed procedures for performing these adjustments are prescribed in AR 735-35.

g. Illustrations. This column is subdivided into two columns as follows:

- (1) *Figure number.* Indicates the number of the illustration in which the part is shown.
- (2) *Item number.* Indicates the reference number used to point out the part in the illustration.

3. Index to Federal Stock Numbers and Manufacturers' Part Numbers

Listed alpha-numerically in the back of this manual are the requisitioning numbers shown in the Federal stock number and/or description column. The alphabetical O is listed as a numerical 0 (zero). This index also lists manufacturers' codes (as applicable) and page numbers.

Example of index sequence:

A	BX5-27	38.50
AA	T295	3888-141-4957
A1/2X3	0124	3885 212
A1-950	1-77	389/100.2
A1A22	2530-048-7342	389/100-18
B	2815-097-5429	3895-128-7642

4. Abbreviations

ac alternating current
amp ampere(s)

AWG	..... American Wire Gage
dc	..... direct current
dia	..... diameter(s)
F	..... Fahrenheit
ft	..... foot (feet)
gal	..... gallon(s)
id	..... inside diameter(s)
in.	..... inch(es)
lb	..... pound(s)
lg	..... length (long)
mtg	..... mounting(s)
od	..... outside diameter(s)
sh	..... sheet(s)
thd	..... thread(s) (ed)
thk	..... thick(ness)
vf	..... microfarad (s)
v	..... volt(s)
w/	..... with
yd	..... yard

5. Index to Federal Supply Code for Manufacturers

00684	.... Nichols Metals Mfg. Co., Inc.
04009	.... Arrow, Hart, and Hegeman Electric Co.
11849	.... Century Electric Co.
18163	.... Dole Valve Co.
19728	.... Electric Auto-Lite Co.
24161	.... Gates Rubber Co.
28835	.... Hobart Brothers Co.
70040	.... AC Spark Plug Division of General Motors Corp.
70403	.... American Stamping Co.
71500	.... Carter Carburetor Division of ACF Industries, Inc.
74865	.... Chrysler Corp.
81321	.... Purolator Products, Inc.
81336	.... Corps of Engineers.

6. Comments and Suggestions

Report all deficiencies in this manual on DA Form 2028. Submit recommendations for changes, additions, or deletions to repair parts allocation and allowance factors and other data. Additional data on climatic and terrain conditions of operation, operational age of the equipment, and the hours operated in the period covered by item 7 of DA Form 2028 are desired. Submit to the Commanding Officer, U.S. Army Mobility Support Center, ATTN: SMOMS-MS, P. O. Box 119, Columbus 16, Ohio. Direct communication is authorized.

SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS	ILLUSTRATIONS
TECHNICAL SERVICE	SOURCE	Maintainance Recovery Ability.	RECOVERY ABILITY.	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.
				2ND ECH	ITEM NO.
P1	0	2805-353-007	GASKET SET: engine overhaul (Includes components of GASKET SET, Stock No. 2805-560-9323)	"A" (74865) 1325983	*
X1		2910-366-6529	GASKET: carburetor flange	"A" (74865) 637191	1 See Group 0301
X1			GASKET: carburetor flange (1)	(74865) 561378	0
X1			GASKET: carburetor flange (1)	(74865) 637192	0
X1			GASKET: carburetor flange (1)	(74865) 651213	0
X1			GASKET: carburetor flange (1)	(74865) 651213	0
X1		2805-366-6424	GASKET: chain case cover (1)	(74865) 600752	0
X1		2805-737-3645	GASKET: chain case cover	"A" (74865) 1122450	1
X1			GASKET: chain case cover plate	"A" (74865) 695441	1
X1		2805-190-4219	GASKET: exhaust pipe flange (1)	(74865) 679023	0
X1			GASKET: exhaust pipe flange (1)	(74865) 683067	0
X1		2910-351-6360	GASKET: fuel pump flange	"A" (74865) 688482	1 See Group 0302
X1			GASKET: fuel pump flange (1)	(74865) 1117161	0
X1		5330-199-5742	GASKET: oil pressure relief valve cap	"A" (74865) 618622	1 See Group 0108
X1		2805-362-1266	GASKET: oil pump cover (1)	(74865) 50744	0
X1		5330-298-0765	GASKET: oil pump cover (1)	(74865) 866724	0
X1			GASKET: oil pump to cylinder block	"A" (74865) 695442	1
X1		5330-245-5503	GASKET: spark plug	"A" (74865) 150189	6 See Group 0604
X1		2930-215-5121	GASKET: water pump to cylinder block	"A" (74865) 637440	1 See Group 0504
X1		2805-353-0111	GASKET SET: manifold	"A" (74865) 780460	1 See Group 0110
X1		2805-298-0135	GASKET SET: oil pan	"A" (74865) 933438	1
X1		2805-172-9762	WASHER, NONMETALLIC: oil pump cover, rubber; 2.487 in. id., 2.601 in. od., 0.095 in. thk	"A" (74865) 1124984	1
P1	0	2805-620-0096	GASKET SET: engine overhaul (Includes components of GASKET SET, Stock No. 2805-024-2076)	"B" (74865) 1243636	1 See Group 0301
X1		2910-575-3771	GASKET: carburetor adapter	"B" (74865) 562221	1 See Group 0301
X1			GASKET: carburetor flange	"B" (74865) 637191	1 See Group 0301
X1			GASKET: carburetor flange (1)	(74865) 637192	0
X1		2805-366-6424	GASKET: chain case cover (1)	(74865) 600752	0
X1		2805-737-3645	GASKET: chain case cover	"B" (74865) 1122450	0
X1			GASKET: chain case cover plate	"B" (74865) 695441	1
X1		2905-190-4219	GASKET: exhaust pipe flange (1)	(74865) 679023	0
X1		2805-298-0514	GASKET: exhaust pipe flange	"B" (74865) 683051	1 See Group 0401
X1		2910-351-5360	GASKET: fuel pump flange	"B" (74865) 688482	1 See Group 0302
X1		2910-773-5782	GASKET: fuel pump flange (1)	(74865) 688481	0
X1			GASKET: fuel pump flange (1)	(74865) 1117161	0
X1			GASKET: oil pan left	"B" (74865) 1138886	1 See Group 0108
X1		5330-199-5742	GASKET: oil pressure relief valve cap	"B" (74865) 618622	1 See Group 0108

TM 5-3431-204-20P								
SOURCE CODES	FEDERAL STOCK NUMBER			DESCRIPTION				
	TECHNICAL SERVICE SOURCE	MaintenancE SOURCE	RECOVERY-ABILITY	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.	ILLUSTRATIONS
					1-5 EQP	2ND ECH	6-10 EQP	
				0100 - ENGINE ASSEMBLY (cont)				
X1	2805-362-1266	GASKET: oil pump cover (1)		"B" (74865) 50744	0			
X1	5330-296-0765	GASKET: oil pump cover (1)		"B" (74865) 863724	0			
X1	5330-245-5503	GASKET: oil pump to cylinder block		"B" (74865) 695442	1			
X1	2930-215-5121	GASKET: spark plug		"B" (74865) 150189	6	See Group 0604		
X1	2805-173-0109	GASKET SET: water pump to cylinder block		"B" (74865) 637440	1	See Group 0504		
X1	2805-559-0723	GASKET SET: manifold		"B" (74865) 780462	1	See Group 0110		
X1	2805-172-9762	GASKET SET: oil pan		"B" (74865) 933439	1			
P 0	2805-024-2076	WASHER, NONMETALLIC: oil pump cover, rubber; 0.487 in. id., 2.601 in. od., 0.095 in. thk		"B" (74865) 11249684	1			
X1	2803-047-1636	GASKET SET: engine valve grinding		"B" (74865) 1664735	1	*	*	*
X1	2930-244-8159	GASKET: cylinder head		"B" (74865) 1113745	1	See Group 0101		
X1	5330-296-0764	GASKET SET: valve spring cover		"B" (74865) 500882	1	See Group 0506		
X1	2930-244-8159	WASHER, NONMETALLIC: thermostat, rubber; 1 3/32 in. id., 1 55/64 in. od., 3/32 in. thk		"B" (74865) 980594	1	See Group 0105		
X1	2805-560-9323	WASHER: water pump by-pass elbow		"B" (74865) 863220	1	See Group 0506		
P 0	2805-560-9323	GASKET SET: engine valve grinding		"B" (74865) 622772	1	See Group 0503		
X1	2930-244-8159	GASKET: cylinder head		"A" (74865) 1325984	1	*	*	*
X1	2805-173-0111	GASKET: cylinder water outlet elbow		"A" (74865) 1117542	1	See Group 0101		
X1	5330-296-0764	GASKET SET: valve spring cover		"A" (74865) 500882	1	See Group 0506		
X1	2805-620-0098	WASHER, NONMETALLIC: thermostat, rubber; 1 3/32 in. id., 1 55/64 in. od., 3/32 in. thk		"A" (74865) 980583	1	See Group 0105		
X1	2805-353-8061	WASHER: water pump by-pass elbow		"A" (74865) 622772	1	See Group 0506		
						0101 - CRANKCASE, BLOCK, CYLINDER HEAD		
X2 0	5306-374-3894	BOLT, EXTERNALLY RELIEVED BODY: cylinder head mtg		"B" (74865) 666014	4	*	*	*
X2 0	5306-374-3904	BOLT, EXTERNALLY RELIEVED BODY: cylinder head mtg		"B" (74865) 692857	15	*	*	*
55 X2 0	4820-276-9040	COCK, DRAIN: cylinder block, Type C, brass; plain, 1/4-18 thd size		"B" (74865) 103647	1	*	*	*
X1	2805-047-4636	GASKET: cylinder head		"B" (74865) 1113745	1			
		(Component of GASKET SET, Stock No. 2805-024-2076 and Stock No. 2805-620-0098, See Group 0100)						
P 0	2805-353-8061	GASKET: cylinder head		"A" (74865) 1401345	1	*	*	*
X1		(Used with ENGINE ASSEMBLY, Stock No. 28835) 3D265 Serial No. 58195 up)						
X2 0	2805-353-0019	GASKET: cylinder head		"A" (74865) 1117542	1			
		(Component of GASKET SETS, Stock No. 2805-560-9323 and Stock No. 2805-353-8007, See Group 0100) (Used with ENGINE ASSEMBLY, Stock No. 28835) 3D265 up to Serial No. 58195)						
X2 0	2805-353-0019	HEAD, CYLINDER: w/core hole plug		"B" (74865) 13136393	1	*	*	*
		(Used with ENGINE ASSEMBLY, Stock No. 28835) DW6369, Serial No. 50,000 up)						

X2	0	2805-353-8045	HEAD, CYLINDER: w/o core hole plug HEAD, CYLINDER: w/core hole plug (Used with ENGINE ASSEMBLY, Stock No. (28835) DW6369, up to Serial No. 50,000)	"A" (74865) 1326309 "B" (74865) 1120796	1	*	*
X2	0	2805-364-2726	NUT, PLAIN, HEXAGON: cylinder head stud, cadmium or zinc plated; 7/16-20 thd size		1	*	*
X2	0	4730-278-3388	PLUG, PIPE: timing hole, galvanized; 1/8-27 thd size (GE)		2	*	*
9	X2	5305-836-1392	SCREW, CAP, HEXAGON HEAD: cylinder head, cadmium or zinc-chromate; 3/8-16 thd size; 1/2 in. lg	(74865) 121852	1	*	*
X2	0	5307-206-1429	STUD, PLAIN: cylinder head, one end 7/16-14 thd size; other end 7/16-20 thd size; 3 11/16 in. lg	(74865) 640723	2	*	*
X2	0	5307-275-3784	STUD, PLAIN: exhaust manifold, one end 3/8-16 thd size; other end 3/8-24 thd size; 1 15/16 in. lg	(74865) 623369	4	*	*
9	X2	5307-011-4987	STUD, PLAIN: manifold, one end 3/8-16 thd size; other end 3/8-24 thd size; 1 1/16 in. lg	(74865) 623369	7	*	*
9	X2	5310-655-7149	WASHER, FLAT: cylinder head stud, cadmium or zinc-chromate; 0.469 in. id, 0.922 in. od, 0.065 in. thk	(74865) 1319068	2	*	*
9	X2	5310-639-8062	WASHER, LOCK: cylinder head screw hole plug, cadmium or zinc-chromate; 0.391 in. id, 0.682 in. od, 0.036 in. thk	(74865) 1319068	1	*	*
			0102 - CRANKSHAFT				
X2	0	2805-366-6410	JAW, CRANKSHAFT STARTING WASHER, LOCK: crankshaft starting jaw, 1.142 in. id, 1.827 in. od, 1.125 in. thk	(74865) 583901 (74865) 6553116	1	*	*
			0105 - VALVES, CAMSHAFTS AND TIMING SYSTEM				
X2	0	2805-366-6390	COVER, VALVE SPRING	"B" (74865) 665689	2	*	*
X2	0	2805-173-0111	COVER, VALVE SPRING	"A" (74865) 600881	2	*	*
X1			GASKET SET: valve spring cover (Component of GASKET SETS, Stock No. 2805-560-9323 and Stock No. 2805-353-8007, See Group 0100)	"A" (74865) 980583	1		
Y1		2805-530-2747	GASKET: valve spring cover (Component of GASKET SETS, Stock No. 2805-024-2076 and Stock No. 2805-620-0098, See Group 0100)	"A" (74865) 871934	2		
X1			GASKET: valve spring cover	"B" (74865) 871935	2		
X1		2805-530-2747	GASKET: valve spring cover screw SCREW, SPECIAL HEAD: valve spring cover, 5/16-18 thd size; 3/32 in. lg "B" (74865) 693959	"B" (74865) 693959	4	*	*
X2	0		GASKET SET: valve spring cover SCREW, SPECIAL HEAD: valve spring cover, 5/16-18 thd size; 2 7/8 in. lg "A" (74865) 693958	"B" (74865) 980584	1	*	*
			0108 - ENGINE LUBRICATION SYSTEM				
X2	0	2805-366-6412	AIR CLEANER: crankcase ventilator	(74865) 627488	1	*	*
9	X2	5306-017-8429	BOLT, MACHINE: crankcase air cleaner mtg, cadmium or zinc plated; 5/16-18 thd size; 4 in. lg	(74865) 189298	1	*	*
X2	0		BRACKET: oil filter mtg	"B" (288335) DW6339	1	*	*
X2	0		BRACKET: oil filter mtg	"A" (74865) 1326938	1	*	*

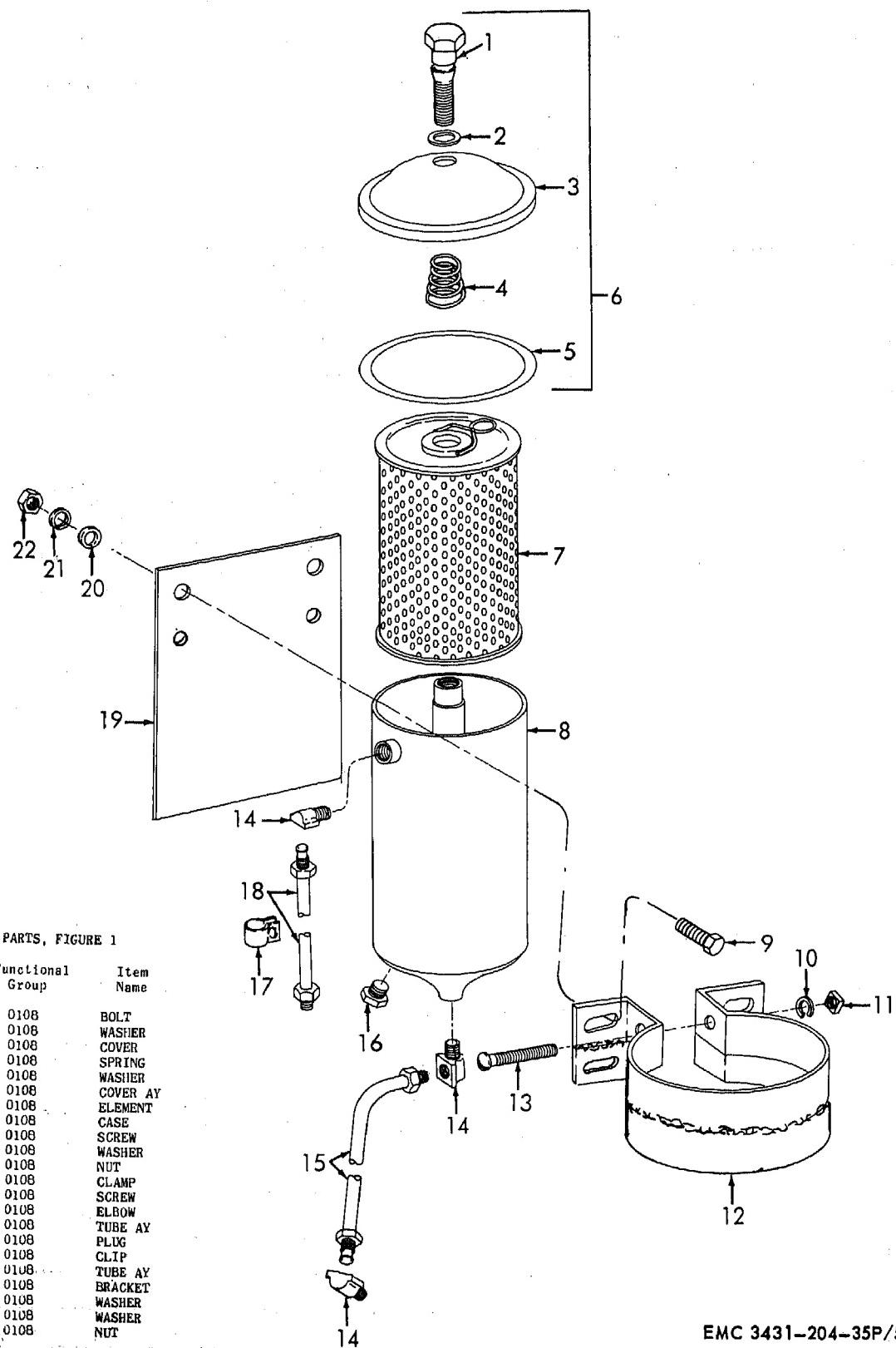


Figure 1. Oil Filter.

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS-TRATIONS FIG. NO.	
			15 DAYS ORGANIZATIONAL MAINTENANCE		2ND ECH			
			1-5 EQP	6-10 EQP	1-5 EQP	6-10 EQP		
0108 - ENGINE LUBRICATION SYSTEM (cont)								
X2 0	2805-294-9999	BREATHER: air cleaner	"A" (74865) 1316571	1	*	*		
X2 0	2940-173-1783	CLAMP, OIL FILTER	(74865) 920290	1	*	*	1 12	
X2 0		CLIP: engine to oil filter tube	"A" (74865) 608473	1	*	*	1 17	
X2 0	4730-277-8273	ELBOW, PIPE TO TUBE: oil filter bottom outlet, brass; one end male, 1/8-27 thd size; other end female, 1/4 in. tube, 7/16-24 thd size	"A" (74865) 225810	6	*	*	1 14	
X2 0	4730-277-8273	ELBOW, PIPE TO TUBE: oil filter, oil filter outlet and inlet tube, brass; one end male, 1/8-27 thd size; other end female, 1/4 in. tube, 7/16-24 thd size	"B" (74865) 225810	4	*	*	1 14	
X2 0	2940-309-9919	FILTER ASSEMBLY, OIL	(81321) 27160	1	*	*	1 1	
X1		CASE, FILTER	(81321) 26709-1	1	*	*	1 8	
X2 0	2940-215-7141	COVER ASSEMBLY, OIL FILTER	(81321) 25791	1	*	*	1 6	
X2 0	5306-360-7904	BOLT, SHOULDER: filter cover	(81321) 25755	1	*	*	1 1	
X1		COVER, FILTER	(81321) 25801	1	*	*	1 3	
X2 0	2940-292-1139	SPRING, HELICAL, COMPRESSION: filter element	(81321) 25757	1	*	*	1 4	
P 0	5310-141-1563	WASHER, FLAT: cover shoulder bolt, copper; 0.640 in. od, 0.063 in. thk	(81321) 30738	1	*	*	1 2	
P 0	5330-599-1285	WASHER, NONMETALLIC: filter cover, rubber; 4.375 in. id, 5.125 in. od, 0.068 in. thk	(81321) 258027	1	*	*	1 5	
P 0	2920-426-2010	ELEMENT, FILTER	(81321) PD51	1	*	*	1 7	
X2 0	4730-011-2578	PLUG, PIPE: oil filter drain, brass or bronze; 1/4-18 thd size (GE)	(81321) 25795	1	*	*	1 16	
X2 0	6680-475-6576	GAGE ROD: w/drain pipe assembly	"B" (28835) DW977	1	*	*	2 11	
X2 0	3432-393-6593	ADAPTER, OIL DRAIN PLUG	"B" (28835) DW1003A	1	*	*	2 7	
X2 0	4730-187-7612	COMPLING, PIPE: oil drain, galvanized, both ends female, 1/2-14 thd size (GE)	"B"	1	*	*		
X2 0	2805-309-8723	GAGE, OIL: bayonet type	"B" (28835) DW1354	1	*	*	2 3	
P1 0	2805-327-7712	GASKET: oil drain	"B" (28835) 472	2	*	*		
X2 0	4730-265-6905	NIPPLE, PIPE: oil drain, 1/2-14 thd size; 2 1/2 in. lg (GE)	"B"	1	*	*		
M 0		PIPE: oil drain	"B" (28835) DW978	1	*	*		
P 0	4710-162-1018	PIPE, STEEL: galvanized; 0.500 in. id (GE) (5 7/8 in. required)	"B" (28835) DW979	FT	*	*		
N 0		PIPE: oil gage bayonet	"B" (28835) DW979	1	*	*	2 5	
MANUFACTURE FROM:								
P 0	4710-162-1018	PIPE, STEEL: galvanized; 0.500 in. id (GE) (7 1/2 in. required)	"B"	FT	*	*		
X2 0	2805-354-2315	PLUG, OIL DRAIN	"B" (28835) DW1003B	1	*	*		
X2 0	4730-278-3412	PLUG, PIPE: oil drain, 1/2-14 thd size (GE)	"B"	1	*	*	2 13	
X2 0	4730-142-1629	PLUG, PIPE: oil gage, 3/4-14 thd size (GE)	"B"	1	*	*	2 2	
X2 0	4730-227-6929	REDUCER, PIPE: oil gage; one end female, 3/4-14 thd size; other end female, 1/2-14 thd size (GE)	"B"	1	*	*	2 4	
X2 0	4730-257-2119	TEE, PIPE: oil gage and drain, galvanized; oil ends female, 1/2-14 thd size	"B"	1	*	*		

INDEX TO PARTS, FIGURE 2

Reference Number	Functional Group	Item Name
1	0108	GAGE
2	0108	PLUG
3	0108	GAGE
4	0108	REDUCER
5	0108	PIPE
6	0108	GASKET
7	0108	ADAPTER
8	0108	PLUG
9	0108	PIPE
10	0108	TEE
11	0108	NIPPLE
12	0108	COUPLING
13	0108	PLUG

TM 5-3431-204-20P

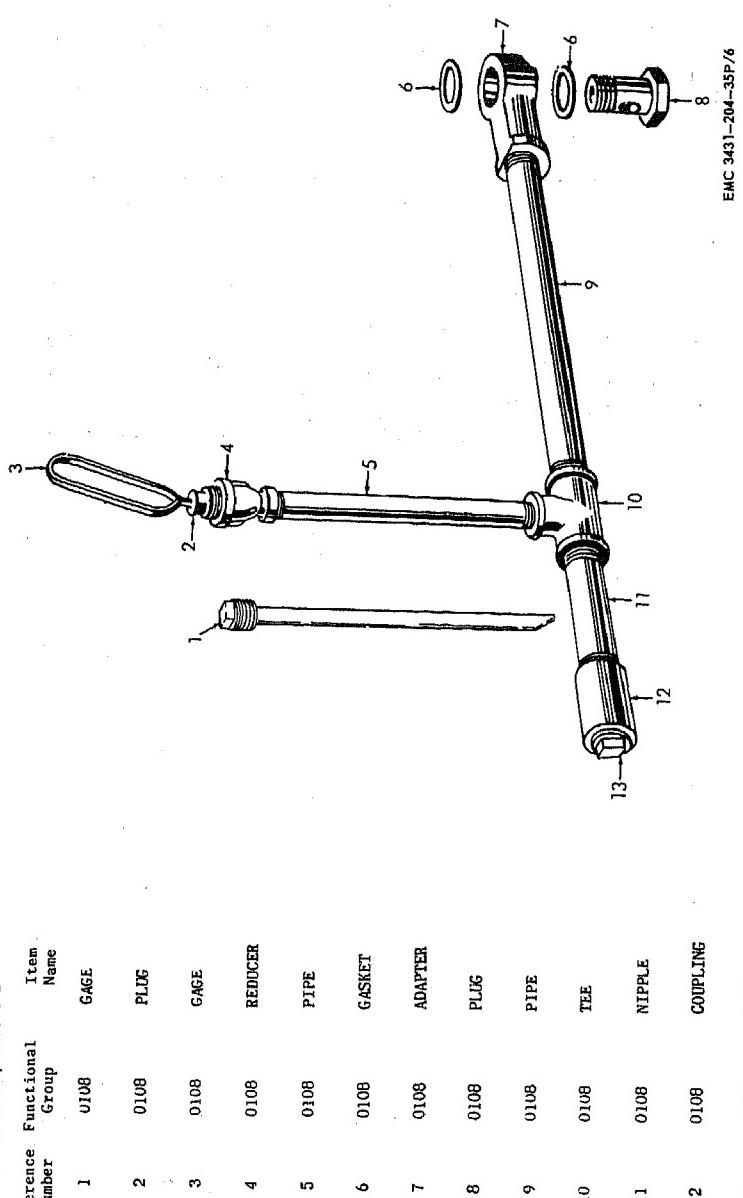


Figure 2. Engine Oil Gage and Drain Pipe.

SOURCE CODES	FEDERAL STOCK NUMBER	RECEIVER ABILITY	MAINTENANCE SOURCE	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUS. TRATIONS
				15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	1-5 EQP 6-10 EQP	
0108 - ENGINE LUBRICATION SYSTEM (cont)							
M 0				GASKET: crankcase ventilator outlet pipe MANUFACTURE FROM: PAPER, GASKET (GE) (3 in. x 3 in. required)	(74865) 301034	1	
P 0	5330-233-5847			PAPER, GASKET (GE) (3 in. x 3 in. required)	(74865) 618622	10	See Group 9501
X1	5330-199-5742			GASKET: oil pressure relief valve cap (Component of GASKET SETS. Stock No. 2805-353-8007 and Stock No. 2805-620-0098, See Group 0100)		1	

ITEM 3-373-1-24-20									
9	X2	0	5310-012-0377	NUT, PLAIN, HEXAGON: oil filter bracket mtg, cadmium or zinc-chromate; 3/8-16 thd size	"B"			*	*
9	X2	0	5310-176-8160	NUT, PLAIN, HEXAGON: oil filter clamp, cadmium or zinc plated; 5/16-18 thd size		(74865) 120376	1	*	1
	X2	0		PIPE, BREATHER		"A" (74865) 871863	1	*	1
	X2	0		PIPE: crankcase ventilator outlet		"A" (74865) 685268;	1	*	*
	X2	0		PIPE: crankcase ventilator outlet		"B" (74865) 685560	1	*	*
	X2	0	2805-368-2551	PIPE, STEEL, CRANKCASE BREATHER		"B" (74865) 871862	1	*	*
	X2	0	2805-371-5475	PIPE ASSEMBLY: oil gauge and drain		"A" (28835) 3DW278	1	*	*
9	X2	0	3432-393-6593	ADAPTER, OIL DRAIN PLUG		"A" (28835) DW1003A	1	*	2
	X2	0	2805-374-5158	GASKET, OIL LEVEL, BAYONET		"A" (28835) 3DW348	1	*	2
	P	0	2805-527-7712	PIPE: oil drain		"A" (28835) 472	2	*	2
	M	0		PIPE: oil drain		"A" (28835) 3DW350	1	*	6
				MANUFACTURE FROM:					
	P	0	4710-162-0989	PIPE, STEEL: 1/2 in. id (GE) (5 in. required)		"A" (28835) 3DW279	FT	*	*
	M	0		PIPE, STEEL: 011 gage		"A" (28835) 3DW279	FT	*	*
	P	0	4710-162-0989	PIPE, STEEL: 1/2 in. id (9 in. required)		"A" (28835) 3DW279	FT	*	*
	X2	0	2805-354-2315	PLUG, OIL DRAIN		"A" (28835) DW1003B	1	*	2
	X2	0	4730-278-3412	PLUG, PIPE: oil drain; 1/2-14 thd size (GE)		"A" (28835) DW1003B	1	*	8
	X2	0	4730-227-6923	REDUCER, PIPE: oil gage, one end female, 3/4-14 thd size, other end female, 1/4-14 thd size (GE)		"A" (28835) DW1003B	1	*	
	X2	0	4730-257-2119	TEE, PIPE: oil gage and drain, galvanized; all ends female, 1/2-14 thd size (GE)		"A" (28835) DW1003B	1	*	
	X2	0		PLUG, HEXAGON HEAD: oil pan drain		"B" (74865) 50772	1	*	
	X2	0		PLUG, HEXAGON HEAD: oil pan drain, 7/8-18 thd size; 1/8 in. (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW365, up to Serial No. 61780 up)		"A" (74865) 50772	1	*	
	X2	0	4730-289-5387	PLUG, MACHINE THREAD MAGNETIC: oil pan drain, 7/8-18 thd size (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW365, Serial No. 61780 up)		"A" (74865) 1404059	1	*	
	X2	0	4730-289-3313	PLUG, MACHINE THREAD: oil pressure relief valve, 3/4-16 thd size (74865) 618621		"A" (74865) 618621	1	*	
	X2	0	2805-359-3136	PLUNGER: oil pressure relief valve		"A" (74865) 1142998	1	*	
	X2	0	2805-453-9950	PLUNGER, OIL PRESSURE RELIEF VALVE (Used with ENGINE ASSEMBLY, Stock No. (28835) DW6369, Serial No. 50,000 up)		"B" (74865) 1119204	1	*	
	X2	0	2805-510-6088	PLUNGER, OIL PRESSURE RELIEF VALVE (Used with ENGINE ASSEMBLY, Stock No. (28835) DW6369, up to Serial No. 50,000)		"B" (74865) 618759	1	*	
	X2	0	2805-213-63998	SCREEN BREATHER PIPE, OIL SCREEN, CAP, HEXAGON HEAD: oil filter bracket mtg, cadmium or zinc-chromate; 3/8-16 thd size; 3/8 in. lg		(74865) 871851	1	*	
	X2	0	5305-012-1837	SCREEN, CAP, HEXAGON HEAD: oil filter bracket mtg, cadmium or zinc-chromate; 3/8-16 thd size; 3/4 in. lg		"B" (74865) 871851	1	*	
9	X2	0	5305-266-6281	SCREW, CAP, HEXAGON HEAD: oil filter bracket mtg, cadmium plated;		"A" (74865) 122119	2	*	1
	X2	0	5305-551-0135	SCREW, MACHINE: oil filter clamp, cadmium or zinc-chromate; 5/16-18 thd size; 2 1/2 in. lg		"A" (74865) 133129	1	*	9
P1	0		2805-254-1360	SPRING, HELICAL, COMPRESSION: oil plunger relief valve, plain, standard "A" (74865) 1119994		"A" (74865) 1119994	1	*	13

SOURCE CODES	TECHNICAL SERVICE SOURCE	MAINTENANCE SOURCE	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS		ILLUS-TRATIONS	
					1-5 EQP	15 DAYS ORGANIZATIONAL MAINTENANCE 2ND ECH	FIG. NO.	ITEM NO.
P1 0	5340-644-3197	SPRING, HELICAL, COMPRESSION: oil pressure relief valve, standard, painted blue (Used with ENGINE ASSEMBLY, Stock No. (28835) DM6369, Serial No. 50,000 up)		"B" (74865) 1119205	1	*	*	
P1 0	2805-268-1109	SPRING, HELICAL, COMPRESSION: oil pressure relief valve, standard painted red TUBE ASSEMBLY: engine to oil filter MANUFACTURE FROM: INVERTED NUT, TUBE COUPLING: zinc plated; 1/4 in. tube, 7/16-24 thd size TUBE, COPPER (1 1/2 in. required)		"B" (74865) 1121250 (74865) 861610	1	*	*	
M 0	4730-288-9387	TUBE ASSEMBLY: filter to engine outlet 7/16-24 thd size		(74865) 137397	2	*	*	
P 0	4710-277-5525	WASHER, FLAT: crankcase air cleaner mtg, cadmium plated; plain steel, large, 5/16 in. id WASHER, FLAT: oil filter mtg, cadmium or zinc-chromate; 0.375 in. id, 0.875 in. od, 0.083 in. thk (Supplied under Stock No. 5310-209-0710)		(74865) 861584 (74865) 120387	1	*	*	1 18
X2 0	4730-288-9387	WASHER, LOCK: oil filter bracket mtg, cadmium-chromate; 0.382 in. id, 0.689 in. od, 0.094 in. thk WASHER, LOCK: oil filter clamp, cadmium or zinc-chromate; 0.319 in. id, 0.591 in. od, 0.078 in. thk		(74865) 137397 (74865) 120382 (74865) 120214	2	*	*	
				010 - MANIFOLDS				
9 X2 0	5306-286-5784	BOLT, MACHINE: manifold, 3/8-24 thd size; 4 in. lg GASKET SET: manifold (Component of GASKET SET, Stock No. 2805-620-00908, See Group 0100)		"B" (74865) 126167 "B" (74865) 780462	4	*	*	
X1	2805-173-0109	GASKET: intake and exhaust manifold center (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)		"B" (74865) 666353	1			
X1	5330-190-4218	GASKET: intake and exhaust manifold end (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)		"B" (74865) 666354 "A" (74865) 780460	4			
X1	2805-353-8111	GASKET: intake and exhaust manifold center GASKET: intake and exhaust manifold end		"A" (74865) 601275 "A" (74865) 318042	1			
X2 0	2805-388-7810	MANIFOLD ASSEMBLY, INTAKE AND EXHAUST BOLT, MACHINE: manifold to manifold, 3/8-24 thd size; 4 in. lg GASKET: intake to exhaust manifold MANIFOLD, INTAKE		"B" (74865) 1326637 "B" (74865) 126167 "B" (74865) 666352 "B" (74865) 1121704	1	*	*	
9 X2 0	5306-288-5784	NUT, PLAIN, HEXAGON: manifold to manifold bolt, brass; 3/8-24 thd size		"B" (74865) 114457	4	*	*	

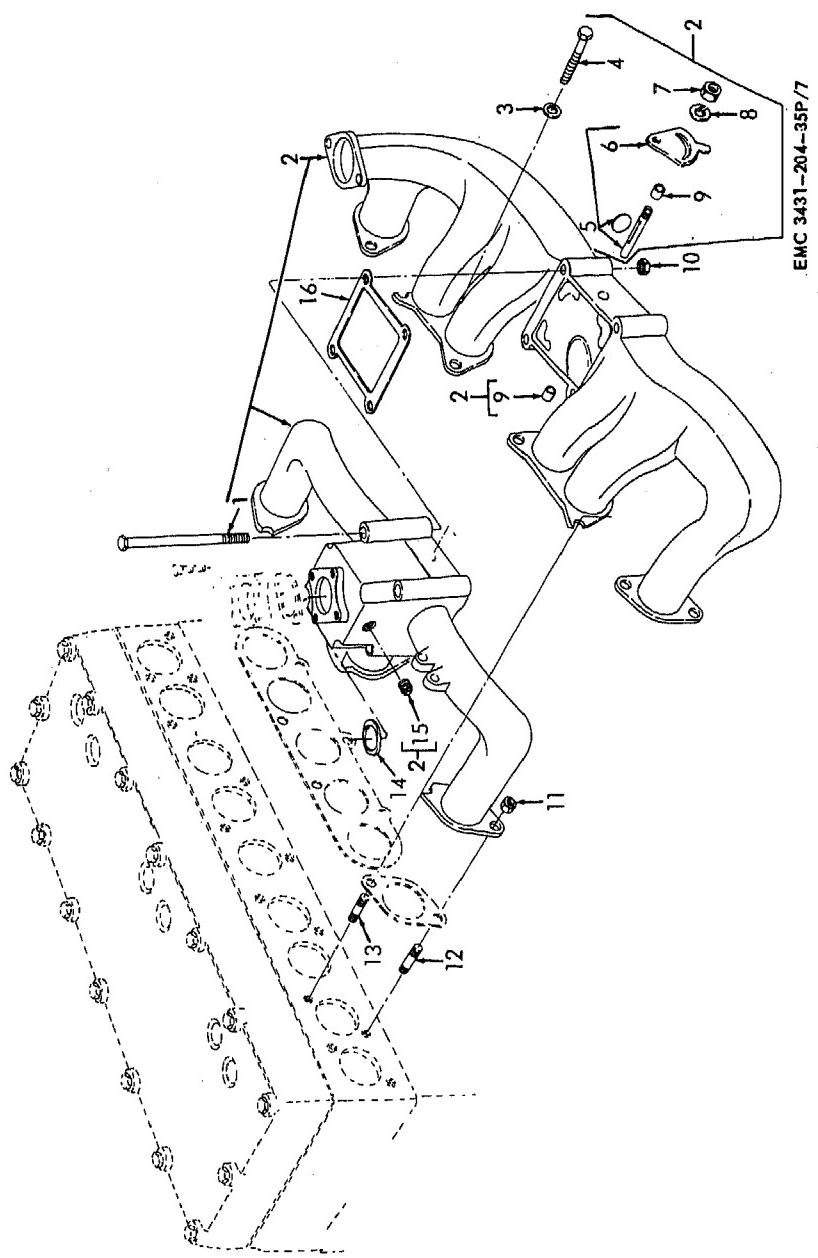


Figure 3. Manifolds.

INDEX TO PARTS, FIGURE 3

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	0110	BOLT	5	0110	SHAFT AY	9	0110	BEARING	13	0110	STUD
2	0110	MANIFOLD AY	6	0110	PLATE	10	0110	WASHER	14	0110	RING
3	0110	WASHER	7	0110	NUT	11	0110	NUT	15	0110	PLDG
4	0110	SCREW	8	0110	WASHER	12	0101	STUD	16	0110	GASKET

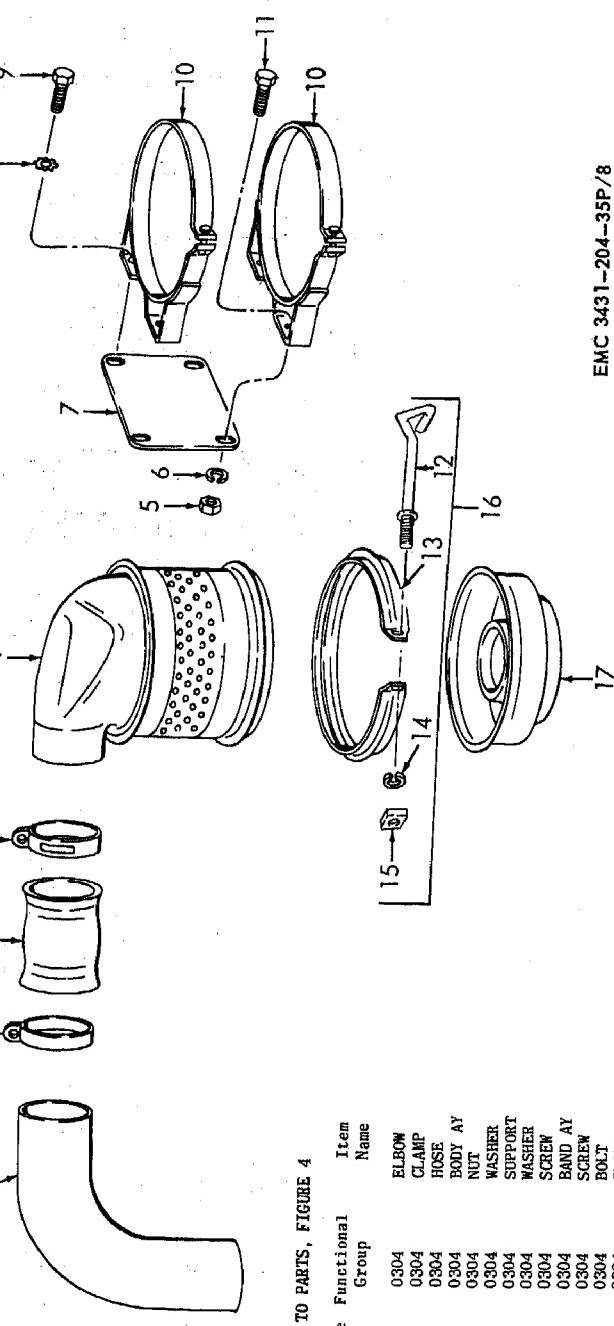
SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT		ILLUS. TRATIONS
			15 DAYS ORGANIC MAINTENANCE	2ND ECH	
		0110 - MANIFOLD (cont)			
X2 0	4730-278-3039	PLUG, PIPE: intake manifold, 3/8-18 thd size	"B" (74865) 103867	1	*
X2 0	2805-376-8283	RING, FUEL CENTRALIZER	"A" (74865) 1122465	1	*
X2 0	2805-397-9291	MANIFOLD ASSEMBLY: intake and exhaust	"A" (74865) 1122193	1	*
P1 0	2805-353-8093	BEARING, SLEEVE: manifold heat control valve shaft	"A" (74865) 651251	2	*
X2 0	5306-272-4270	BOLT, MACHINE: intake to exhaust manifold, 5/16-18 thd size; 2 1/2 in. lg	"A" (74865) 317942	4	*
P 0	2805-353-8086	GASKET: intake to exhaust manifold	"A" (74865) 601420	1	*
9 X2 0	5310-011-4545	NUT, PLAIN, HEXAGON: manifold heat control valve, brass; 1/4-26 thd size	"A" (74865) 114545	1	*
X2 0	4730-278-3039	PLUG, PIPE: intake manifold, 3/8-18 thd size (GE)	"A" (74865) 103867	1	*
9 X2 0	5305-527-3895	SCREEN, CAP, HEXAGON HEAD: manifold, cadmium or zinc-chromate, 3/8-16 thd size; 3 in. lg	"A" (74865) 122207	2	*
X2 0		SHAFT ASSEMBLY: heat control valve	"A" (74865) 614976	1	*
X2 0		PLATE, ADJUSTING: heat control valve	"A" (74865) 604504	-1	*
X2 0	5307-014-7716	STUD, PLAIN: manifold heat control valve, cadmium or zinc plated; one end 1/4-20 thd size; other end, 1/4-28 thd size; 1 in. lg	"A" (74865) 121753	1	*
9 X2 0	5310-194-1540	WASHER, FLAT: manifold heat control, cadmium or zinc-chromate; 0.281 in. id. 0.625 in. od. 0.065 in. thk	"A" (74865) 604504	3	*
9 X2 0	5310-012-1753	WASHER, LOCK: manifold heat control valve, cadmium or zinc plated;	"A" (74865) 121753	1	*
9 X2 0	5310-010-3026	NUT, PLAIN, HEXAGON: exhaust manifold mtg, 3/8-24 thd size	"A" (74865) 121753	4	*
9 X2 0	5310-021-5589	NUT, PLAIN, HEXAGON: manifold mtg, brass; 3/8-24 thd size	"A" (74865) 114547	7	*
9 X2 0	5305-018-6283	SCREW, CAP, HEXAGON HEAD: manifold, 3/8-16 thd size; 3 1/2 in. lg	"B"	2	*
9 X2 0	5307-011-3247	STUD, PLAIN: carburetor mtg, cadmium or zinc plated; one end, 3/8-16 thd size; other end, 3/8-24 thd size; 1 7/16 in. lg	"A" (74865) 113247	2	*
X2 0	5310-353-8073	WASHER, CLINCH RING: manifold clamp, 13/32 in. id, 1 in. od	"B" (74865) 43699	4	*
9 X2 0	5310-188-4234	WASHER, FLAT: manifold clamp, 13/32 in. id, 7/8 in. od, 1/8 in. thk	"A" (74865) 567331	4	*
X2 0	5310-276-3034	WASHER, RECESSED: exhaust manifold stud, brass; 7/16 in. id, 3/4 in. od, 1/4 in.	"A" (74865) 6223368	4	*
		GROUP 03 - FUEL SYSTEM			
		0301 - CARBURETOR			
X2 0		ADAPTER, CARBURETOR FLANGE	"B" (74865) 1069119	1	*
X2 0	2910-353-6134	ADAPTER, FLANGE: carburetor	"A" (74865) 920248	1	*
P 0	2910-359-4540	CARBURETOR, FLOAT	(74865) 1317258	1	*
P 0	2910-145-0220	GASKET: carburetor body	(71500) 121-69	1	*
X1	2910-575-3771	GASKET: carburetor adapter	"B" (74865) 562221	1	1
P 0		(Component of GASKET SET, Stock No. 2805-020-0098, See Group 0100)	"A" (74865) 562221	1	5 8
P 0	2910-575-3771	GASKET: carburetor adapter flange	"A" (74865) 562221	1	*

INDEX TO PARTS, FIGURE 4

Reference Number	Functional Group	Item Name
1	0304	ELBOW
2	0304	CLAMP
3	0304	HOSE
4	0304	BODY AY
5	0304	NUT
6	0304	WASHER
7	0304	SUPPORT
8	0304	WASHER
9	0304	SCREW
10	0304	BAND AY
11	0304	SCREW
12	0304	BOLT
13	0304	CLAMP
14	0304	WASHER
15	0304	NUT
16	0304	CLAMP AY
17	0304	CUP AY

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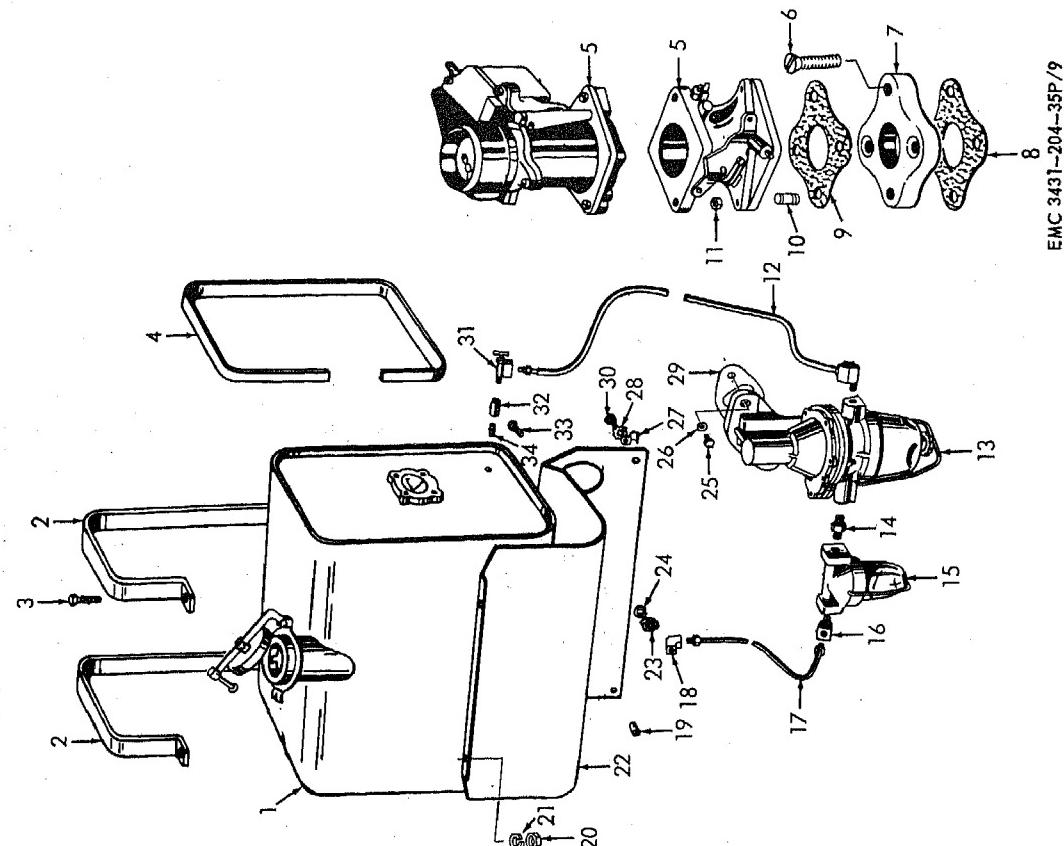
Figure 4. Air Cleaner.



SOURCE CODES	TECHNICAL SERVICE	MAINTENANCE	RECOVERY-RECOVER	FEDERAL STOCK NUMBER	DESCRIPTION				GUIDE QUANTITIES PER MAJOR EQUIPMENT	ILLUS-TRATIONS		
					15 DAYS		1-5 EQP					
					ORGANIZATIONAL MAINTENANCE	2ND ECH	6-10 EQP	1-5 EQP				
0304 - AIR CLEANER (cont)												
X1					BAFFLE, OIL							
X1					CUP, OIL							
X2 0	4730-358-5965	CLAMP, HOSE; air cleaner hose, 1 to 3 in. id (GE)				1						
X2 0	2940-429-1031	ELBOW, AIR CLEANER	(28835) 181/2			1						
P 0	5330-246-2906	GASKET; air cleaner elbow	(28835) 5CW732			3	*	*	4	2		
P1 0	5330-246-2966	HOSE, AIR CLEANER; preformed	(74865) 952062			1	*	*	4	1		
9 X2 0	5310-637-0110	NUT, PLAIN, HEXAGON; air cleaner bracket, cadmium plated; 1/4-20 thd size	(28835) 5GW713			1	*	*	4	3		
						4	*	*	4	5		

9 x2 0 5305-012-38P2 SCREW, CAP, HEXAGON HEAD; air cleaner bracket to engine, cadmium or

9 X2 0	5305-012-3382	SCREW, CAP, HEXAGON HEAD: air cleaner bracket to engine, cadmium or zinc-chrome; 3/8-24 thd size; 1/2 in. lg		2	*	*	4	9
9 X2 0	5305-543-2685	SCREEN, MACHINE: air cleaner mtg bracket, cadmium or zinc plated; 1/4-20 thd size; 3/8 in. lg		4	*	*	4	11
X2 0		SUPPORT, AIR CLEANER	(28835) 5GW699	1	*	*	4	7
9 X2 0	5310-637-9541	WASHER, LOCK: air cleaner bracket to engine, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk		2	*	*	4	8
9 X2 0	5310-010-3319	WASHER, LOCK: air cleaner bracket, 0.255 in. id, 0.493 in. od, 0.052 in. thk		4	*	*	4	6
		0306 - TANKS, LINES, FITTINGS						
9 X2 0	5306-017-9827	BOLT, MACHINE: fuel tank strap, 5/16-18 thd size; 2 1/4 in. lg "A"		2	*	*	5	3
9 X2 0	5306-012-2007	BOLT, MACHINE: fuel tank support mtg, lower, and battery cable clamp mtg, cadmium or zinc plated; 5/16-18 thd size; 3/4 in. lg "A"	(28835) 5247	2	*	*	5	30
P1 0	2910-570-6329	CAP, FUEL TANK: safety, gas tank	(28835) DM30134	1	*	*	6	4
X2 0	2910-496-5185	CAP, FUEL TANK	(28835) DM3006	1	*	*	6	3
P1 0	5330-361-7920	PACKING, PREFORMED: gas tank safety cap	(28835) DM1453	1	*	*	6	2
P1 0	5330-429-0971	PACKING, PREFORMED: gas tank safety cap	(28835) DM1454	1	*	*	6	7
9 X2 0	5320-269-8018	RIVET, SOLID: gas tank safety cap, zinc plated; 3/16 in. dia, 1 5/8 in. lg	(28835) DM3169	1	*	*	6	9
9 X2 0	5320-274-9534	RIVET, SOLID: safety cap cover, copper; 3/16 in. dia, 3/32 in. lg	(28835) 50MS286	1	*	*	6	5
9 X2 0	5320-010-4067	RIVET, SOLID: safety cap hold down bar; 3/16 in. dia, 1/2 in. lg	(28835) DM1277	1	*	*	6	6
X2 0	2910-354-2326	SCREEN AND FLANGE	(28835) DM3085	1	*	*	6	8
X2 0	5305-429-0970	SCREW, MACHINE: leather seal, zinc plated; 5/16-18 thd size; 3/8 in. lg	(28835) DM1440	1	*	*	6	1
X2 0		SPRING: gas cap rivet	(28835) W799D94	1	*	*	6	10
X2 0	5310-515-8891	WASHER, BALL SOCKET: gas tank safety cap rivet, zinc plated; 3/16 in. id, 7/8 in. od, 3/16 in. thk	(28835) DM1439	1	*	*	6	12
X2 0	5310-193-7567	WASHER, LOCK: gas tank safety cap, cadmium plated; 0.262 in. id, 0.742 in. od, 0.036 in. thk		1	*	*	6	11
X2 0	4820-142-1992	COCK, SHUTOFF, SCREW STEM: fuel tank, brass body; one end male, 1/8-27 thd size; other end female, 5/16 in. tube, 1/2-20 thd size	(28835) A775	1	*	*	5	31
X2 0	4730-287-1829	COUPLING, PIPE: needle valve, brass; both ends female, 1/8-27 thd size		1	*	*	5	32
X2 0	4730-540-1051	ELBOW, PIPE TO TUBE: filter to carburetor, brass; one end male, 1/8-27 thd size; other end female, 5/16 in. tube, 1/2-20 thd size	(74865) 137422	1	*	*	5	18
X2 0	4730-640-5179	ELBOW, PIPE TO TUBE: fuel pump to carburetor and strainer to tank, brass; one end female, 7/16-24 thd size; other end female, 1/4 in. tube, 1/8-27 thd size	(28835) 1075152	3	*	*	5	16
X2 0	2910-429-0979	LINE ASSEMBLY: filter to carburetor	"B" (28835) DM1725	1	*	*	5	17
M 0	2910-358-4984	MANUFACTURE FROM:	"A" (74865) 861834					
9 X2 0	4730-013-7398	INVERTED NUT, TUBE COUPLING: filter to carburetor fuel line, cadmium or zinc plated; 5/16 in. tube, 1/2-20 thd size	"A" (74865) 137398	2	*	*		
P 0	4710-277-5526	TUBE, COPPER: 5/16 in. dia (24 in. required)	"A"		*	*		
X2 0	2910-374-5055	LINE ASSEMBLY, FUEL: fuel tank to fuel pump	(28835) DM6372C	1	*	*	5	12
X2 0	4730-230-1996	NIPPLE, PIPE: fuel pump to fuel strainer, 1/8-27 thd size;	(74865) 142968	1	*	*	5	14
9 X2 0	4730-050-1357	NIPPLE, PIPE: fuel tank to needle valve coupling, cadmium or zinc plated;	"A"	1	*	*	5	34



INDEX TO PARTS, FIGURE 5

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	0306	TANK	18	0306	ELBOW
2	0306	STRAP	19	0306	SPACER
3	0306	BOLT	20	0306	NUT
4	0306	PACKING	21	0306	WASHER
5	0301	CARBURETOR	22	0306	SUPPORT
6	0301	SCREW	23	0306	NUT
7	0301	ADAPTER	24	0306	WASHER
8	0301	GASKET	25	0302	BOLT
9	0301	GASKET	26	0302	WASHER
10	0110	STUD	27	0612	CLAMP
11	0301	NUT	28	0306	WASHER
12	0306	LINE AY	29	0302	GASKET
13	0302	PUMP	30	0306	BOLT
14	0306	NIPPLE	31	0306	COCK
15	0309	FILTER	32	0306	COUPLING
16	0306	ELBOW	33	0306	SCREW
17	0306	LINE AY	34	0306	NIPPLE

Figure 5. Fuel System for Symbol (A).

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	ILLUS-TRATIONS	GUIDE QUANTITIES PER MAJOR EQUIPMENTS		
				15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. ITEM NO.
SOURCE CODES	RECORD ENTRY ABILITY	MAINTENANCE SOURCE	EXpend-ABILITy OF ISSUE UNIT	QUANTITY IN UNIT	1-5 EQP	6-10 EQP
0306 - TANKS, LINES, FITTINGS (cont)						
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: fuel tank strap to tank, 5/16-18 thd size "A"		2	*	*
9 X2 0	5310-584-5005	NUT, PLAIN, HEXAGON: fuel tank support mtg, upper, cadmium or zinc-chromate; 1/4-20 thd size "A"		2	*	*
X2 0	5330-290-5444	PACKING, MATERIAL: fuel tank strap "A" (28835) 5CW1226		2	*	*
9 X2 0	5305-012-3737	SORBET, CAP, HEXAGON HEAD: fuel tank support mtg, upper, cadmium or zinc-chromate; 1/4-28 thd size; 1 1/4 in. lg	"A"	2	*	*
9 X2 0	5305-012-0680	SETSCREW: safety gas tank cap, 1/4-20 thd size; 1/2 in. lg "A" (28835) AW397		2	*	*
X2 0	3431-7-31-8473	SPACER: fuel tank support to housing "A" (28835) 5CW1226		1	*	*
X2 0		STRAP, FUEL TANK SUPPORT, GAS TANK "A" (28835) DMW211		2	*	*
X2 0	R 2910-377-5291	TANK, FUEL, ENGINE "A" (28835) 5CW1139		1	*	*
9 X2 0	R 2910-804-7381	TANK, FUEL, ENGINE "B" (28835) 5CW981		1	*	*
X2 0	5310-012-0214	WASHER, LOCK: fuel tank strap to tank; cadmium or zinc plated; 0.319 in. id, 0.591 in. od, 0.078 in. thk "A"		2	*	*
9 X2 0	5310-010-3320	WASHER, LOCK: fuel tank support mtg, lower and battery cable clamp mtg, 0.319 in. id, 0.591 in. od, 0.078 in. thk "A"		2	*	*
9 X2 0	5310-582-5965	WASHER, LOCK: fuel tank support mtg, upper, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk "A"		2	*	*
0308 - ENGINE SPEED GOVERNOR						
P 0	3030-180-2127	BELT, V: governor drive (24161) 3330		1	*	*
9 X2 0	5306-010-0124	BOLT, MACHINE: governor mtg, 5/16-18 thd size; 1 1/2 in. lg (28835) DM569A		2	*	*
P1 0	R 2990-374-5062	GOVERNOR, GASOLINE ENGINE		1	*	*
9 X2 0	5310-560-2649	NUT, PLAIN, HEXAGON: control rod to carburetor, 1/4-20 thd size		1	*	*
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: governor mtg screw, 5/16-18 thd size		2	*	*
X2 0	2990-447-4279	ROD, HORIZONTAL: slip joint, governor to carburetor (28835) 5CW701		1	*	*
9 X2 0	5310-010-3319	WASHER, LOCK: carburetor governor rod, 0.255 in. id, 0.493 in. od, 0.062 in. thk "A"		2	*	*
9 X2 0	5310-010-8579	WASHER, LOCK: governor mtg screw, 0.319 in. id, 0.601 in. od, 0.097 in. thk "A"		2	*	*
0309 - FUEL FILTERS						
X2 0	2910-204-3390	FILTER, FLUID PRESSURE: fuel (Includes components of PACKAGE KIT, Stock No. (71500) F30-66U) (71500) F862S		1	*	*
X1		BODY, FILTER (71500) F0729		1		
X1		BOWL, FUEL FILTER (metal) (71500) F23-41		1		
X1		RETAINER AND SCREEN: bowl (71500) F63-146S		1		
X1		SPRING, HELICAL, COMPRESSION (71500) F61-379		1		
A 0		PACKAGE KIT (71500) F30-66U		1	*	*
P1	Z 210-495-1614	ELEMENT, FILTER (ceramic) (71500) F30-60		1	*	*

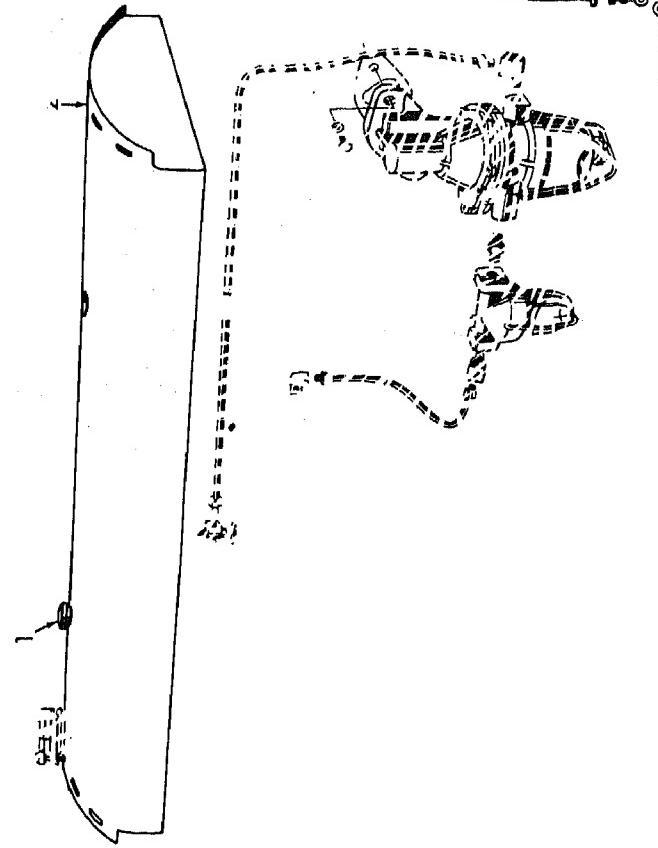
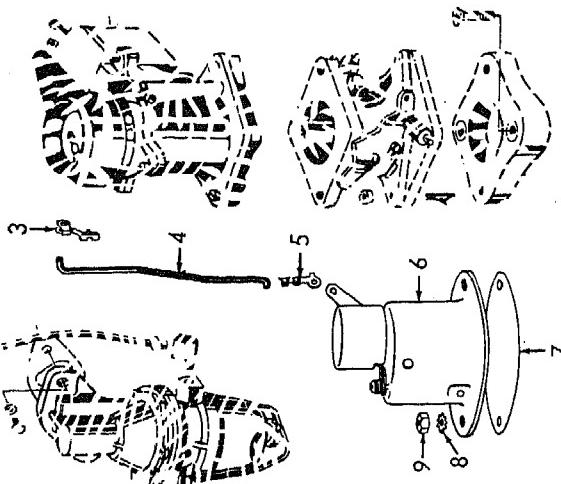


Figure 6. Gas Cap.

INDEX TO PARTS, FIGURE 6

Reference Number	Functional Group	Item Name
1	0306	SCREW
2	0306	PACKING
3	0306	CAP
4	0306	BAR
5	0306	RIVET
6	0306	RIVET
7	0306	PACKING
8	0306	SCREEN FLANGE
9	0306	RIVET
10	0306	SPRING
11	0306	WASHER
12	0312	WASHER

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EMC 3431-204-35P/12

Figure 7. Fuel Tank and Control for Symbol (B).

INDEX TO PARTS, FIGURE 7

Reference Number	Functional Group	Item Name
4	0312	INDICATOR
5	0312	ROD
6	0312	CLIP
7		GASKET
8		WASHER
9		NUT

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS				ILLUSTRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	1-5 EQP	2ND ECH	6-10 EQP	
		0309 - FUEL FILTERS (cont)					
P	0	2910-495-1613 GASKET	(71500) F23420	1	1	1	
		0312 - ACCELERATOR, THROTTLE OR CHOKE CONTROLS					
X2	0	2910-145-0247 BRACKET ASSEMBLY, CHOKE: carburetor choke tube	"B" (74865) 651194	1	*	*	
M	0	CABLE: automatic choke feed	"B" (74865) 211318	1			
X2	0	MANUFACTURE FROM:	"B" (74865) 926026	2	*	*	
X2	0	SELEEVE, CABLE	"B" (74865) 200393	2	*	*	
11	Y2	TERMINAL, LUG: copper, tinned finish; No. 12 to 10 AWG, for	"B" (74865) 200393				
		No. 10 screw size					
9	P	WIRE, ELECTRICAL: copper, tinned finish; No. 16 AWG, stranded conductor (27 in. required)	"B"				
X2	0	CLIP: automatic choke feed, cable	"B" (74865) 871100	2	*	*	
		(located on No. 7 and No. 21 cylinder head screws)					
X2	0	2910-366-6542 CLIP, CARBURETOR CHOKE ROD: upper	"B" (74865) 629792	1	*	*	
X2	0	2910-364-2765 CONTROL ASSEMBLY: automatic	"B" (74865) 671179	1	*	*	
X2	0	2990-294-6749 CONTROL ASSEMBLY, PUSH-PULL: choke	"A" (74865) 5CM1250	1	*	*	
X2	0	2905-364-2169 GASKET: automatic choke	"B" (74865) 647834	1	*	*	
9	Y2	5310-011-4545 NUT, PLAIN, HEXAGON: automatic choke mfg, brass; 1/4-20 thd size	"B" (74865) 114545	2	*	*	
X2	0	2910-732-7706 ROD: automatic choke	"B" (28635) 5CM711	1	*	*	
X2	0	2910-622-4837 ROD: spring clip; choke rod, LOWER	"B" (74865) 612492	1	*	*	
9	X2	5305-042-6950 SCREW, CAP, HEXAGON HEAD: automatic choke feed cable clip, cadmium or zinc plated; 3/16-24 thd size; 1/2 in. lg.	"B" (74865) 123382	2	*	*	
9	X2	5305-012-1832 SCREW, MACHINE: automatic choke terminal, cadmium or zinc plated; No. 8-32 thd size; 3/8 in. lg	"B" (74865) 1211832	1	*	*	
9	X2	5305-015-5028 SCREW, MACHINE: choke tube bracket, cadmium or zinc plated;	"B"	1	*	*	
		No. 8-32 thd size; 5/16 in. lg					
X2	0	5340-145-0214 SPRING, TENSION CARBURETOR: choke pull back	"A" (74865) 651192	1	*	*	
X2	0	5307-269-6700 STUD, PLAIN: automatic choke attaching, one end, 1/4-20 thd size; other end, 1/4-28 thd size; 11/16 in. lg	"B" (74865) 657047	2	*	*	
9	X2	5310-582-5977 WASHER, FLAT: automatic choke feed cable screw, cadmium or zinc-chromate; 0.406 in. id, 0.812 in. od, 0.065 in. thk	"B" (74865) 120394	2	*	*	
9	X2	5310-637-9541 WASHER, LOCK: automatic choke feed cable screw, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk	"B" (74865) 120382	2	*	*	
9	X2	5310-012-1753 WASHER, LOCK: automatic choke mfg, cadmium or zinc-chromate; 0.262 in. id, 0.502 in. od, 0.025 in. thk	"B" (74865) 1211753	2	*	*	
9	X2	5310-550-0285 WASHER, LOCK: automatic choke terminal, cadmium or zinc-chromate; 0.172 in. id, 0.373 in. od, 0.020 in. thk	"B"	1	*	*	

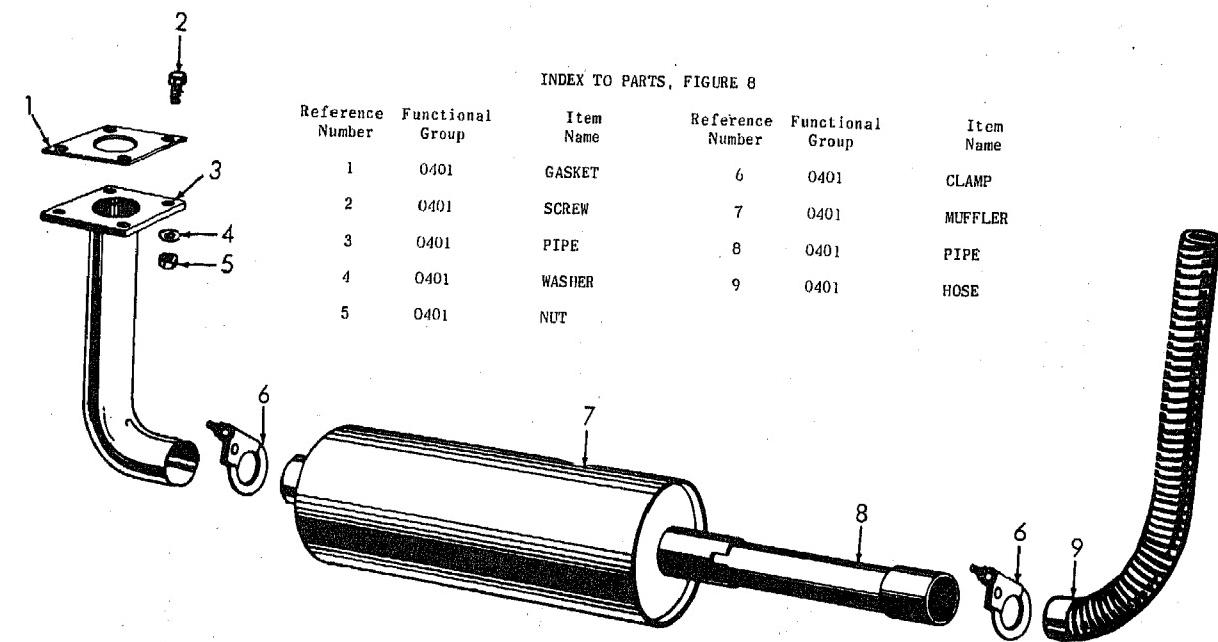


Figure 8. Muffler and Pipes.

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INDEX TO PARTS, FIGURE 9

Reference Number	Functional Group	Item Name
1	0501	CAP
2	2210	PLATE
3	2210	GASKET
4	2210	SCREW
5	0501	SCREW
6	0501	GUARD
7	0503	COCK
8	0501	SCREW
9	0501	WASHER
10	0503	CLAMP
11	0503	HOSE
12	0503	PIPE
13	0502	SHROUD
14	0503	HOSE
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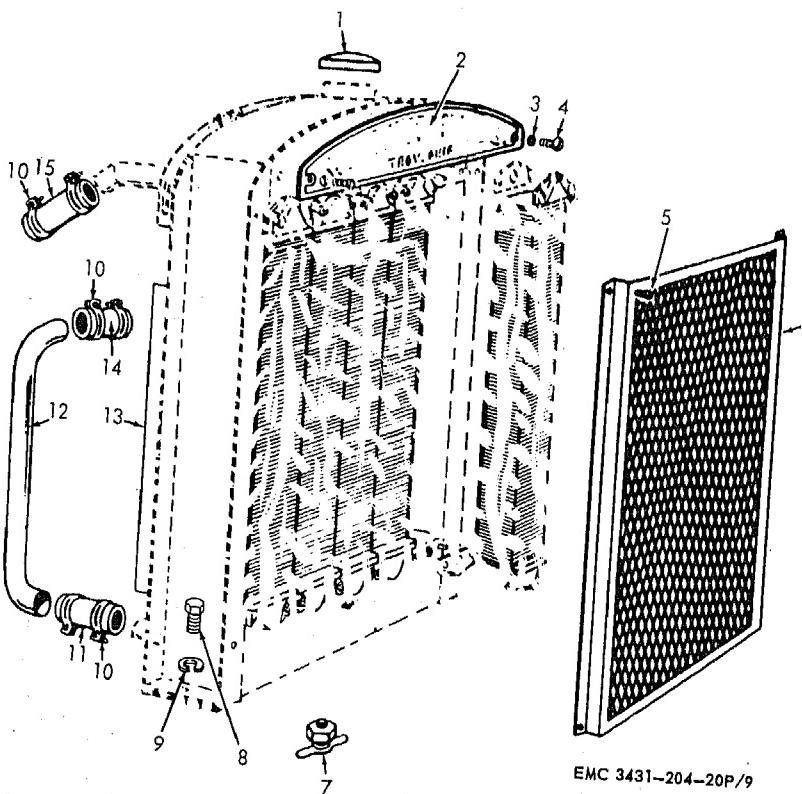


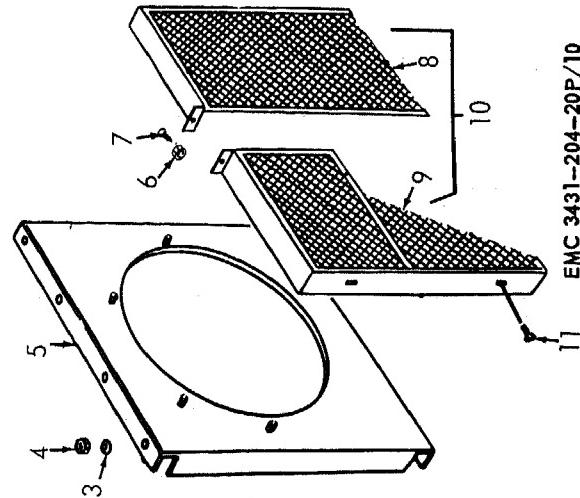
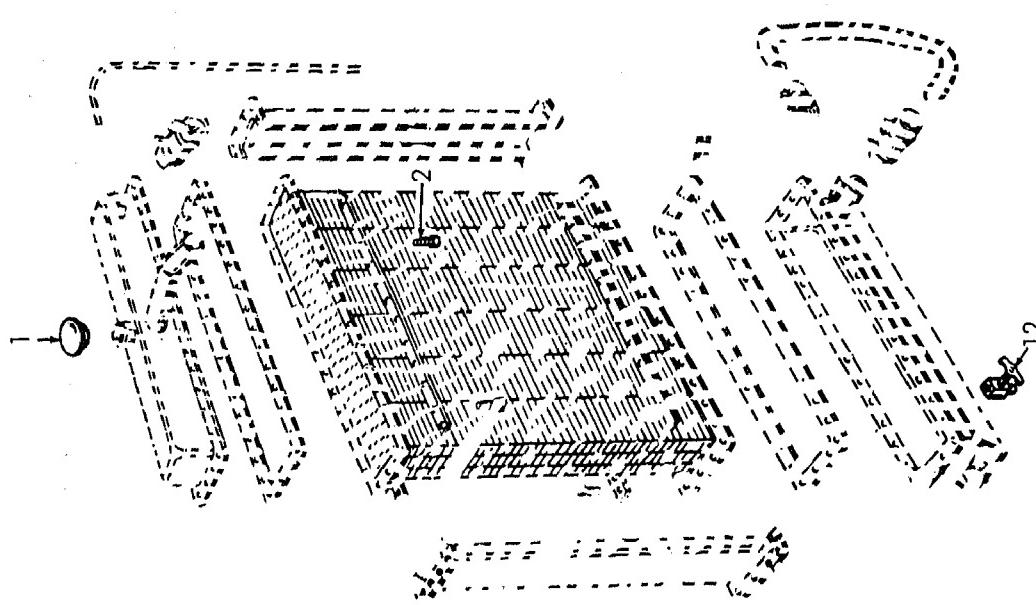
Figure 9. Radiator Guard for Symbol (A).

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SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS				ILLUSTRATIONS
TECHNICAL SERVICE	SOURCE			RECOVERABILITY	RECOVER	15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	
			GROUP 04 - EXHAUST SYSTEM 0401 - MUFFLER AND PIPES					
P	0	2990-374-5050	CLAMP: exhaust pipe to muffler, muffler to tailpipe, tailpipe to flexible tailpipe	"B"	(28835) C6			
X1		2805-298-0514	GASKET: exhaust pipe flange (Component of GASKET SET. Stock No. 2805-620-0098, See Group 0100)	"A"	(28835) 683051			
P	0	2805-298-0514	GASKET: exhaust pipe flange	"B"	(28835) 5CM857			
P	0	2805-298-0514	GASKET: muffler pipe flange to manifold	"B"	(28835) DM1169			
P1	0	2990-429-0966	HOSE, METAL: end, flexible, steel		(28835) CM1164			
P1	0	2990-174-5252	MUFFLER, EXHAUST		(28835) CM1164			
9	X2	0	5310-013-4570	NUT, PLAIN, HEXAGON: manifold to exhaust pipe flange screw; cadmium or zinc-chromate; 3/8-16 thd size	"A"			
9	X2	0	5310-012-0377	NUT, PLAIN, HEXAGON: manifold to exhaust pipe flange screw; cadmium or zinc-chromate; 3/8-16 thd size	"B"			
P1	0	2990-447-4222	PIPE, EXHAUST		(28835) DM1011			
X2	0	2990-393-6609	PIPE: exhaust, manifold to muffler	"A"	(28835) 3DMW240			
X2	0		PIPE: exhaust, manifold to muffler	"B"	(28835) CM1199A			
9	X2	0	5305-017-9843	SCREW, CAP, HEXAGON HEAD: manifold to exhaust pipe flange, cadmium or zinc plated; 3/8-16 thd size; 1 1/2 in. lg	"A"			
9	X2	0	5305-021-4389	SCREW, CAP, HEXAGON HEAD: manifold to exhaust pipe flange, 3/8-16 thd size; 1 1/4 in. lg	"B"			
9	X2	0	5305-227-1084	SCREW, TAPPING, THREAD FORMING: muffler shield, cadmium or zinc plated; No. 6-18 thd size; 3/8 in. lg				
X2	0	3375-374-5064	SHIELD ASSEMBLY, HEAT MUFFLER: heat and splash		(28835) DM6367			
9	X2	0	5310-637-9541	WASHER, LOCK: manifold to exhaust pipe flange screw, cadmium-chromate; 0.382 in. id. 0.668 in. od. 0.094 in. thk	"B"			
9	X2	0	5310-013-1099	WASHER, LOCK: manifold to exhaust pipe flange screw, cadmium or zinc plated; 0.382 in. id. 0.696 in. od. 0.115 in. thk	"A"			
			GROUP 05 - COOLING SYSTEM					
			0501 - RADIATOR					
X2	0	2930-429-0946	GUARD, FRONT: radiator	"B"	(28835) BM559			
X2	0	2930-447-4284	RADIATOR ASSEMBLY	"B"	(28835) 4PCAG47			
P1	0	2910-447-4221	CAP, RADIATOR	"B"	(28835) CM894			
9	P	0	5330-543-3261	GASKET: nameplate screw, radiator, copper; 3/8 in. id. 5/8 in. od. 3/32 in. thk	"B"	2	See Group 2210	
X2	0		PLATE, NAME: welder radiator	"B"	(28835) CM363	1	See Group 2210	
X2	0	5305-017-9837	SCREEN, CAP, HEXAGON HEAD: radiator nameplate mtg. 3/8-16 thd size; 3/4 in. lg	"B"	(28835) DM378BA	2	See Group 2210	
X2	0		RADIATOR ASSEMBLY	"A"	(28835) DM378BA	1	*	*

INDEX TO PARTS, FIGURE 10

Reference Number	Functional Group	Item Name
1	0501	CAP
2	0502	BOLT
3	0502	WASHER
4	0502	NUT
5	0502	SHROUD
6	0505	NUT
7	0505	SCREW
8	0505	GUARD
9	0505	GUARD
10	0505	GUARD AY
11	0505	SCREW
12	0503	COCK



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Figure 10. Radiator Shroud and Guards for Symbol (B).

SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT		ILLUS-TRATIONS	
SOURCE	TECHNICAL SERVICE			RECOVERY-ABILITY	MaintenancE	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. ITEM NO.
0501 - RADIATOR (cont.)							
P1 0	2910-447-4221	CAP, RADIATOR	"A" (28835) CR874			1	*
9 X2 0	5305-010-0159	SCREW, CAP, HEXAGON HEAD: radiator mtg; 1/2-13 thd size; 1 1/4 in. lg				2	*
9 X2 0	5305-017-1026	SCREW, TAPPING, THREAD FORMING: radiator guard mtg, cadmium or zinc plated; 1/4-20 thd size; 1/2 in. lg	"B"			4	*
9 X2 0	5310-010-3323	WASHER, LOCK: radiator mtg, 0.509 in. id, 0.879 in. od, 0.125 in. thk				2	*
0502 - COWLING, DEFLECTORS, AIR DUCT, SHROUD							
9 X2 0	5306-022-7776	BOLT, MACHINE: fan shroud mtg, cadmium or zinc plated; 5/16-18 thd size; 1 1/4 in. lg	"A"			9	*
9 X2 0	5310-012-0376	NUT, PLAIN HEXAGON: fan shroud mtg screw, cadmium or zinc-chromate; 5/16-18 thd size	"A"			9	*
X2 0		SHROUD, FAN	"A" (28835) DW5323			1	*
X2 0		SHROUD, RADIATOR	"B" (28835) DW944			1	*
9 X2 0	5310-012-0214	WASHER, LOCK: fan shroud mtg screw, cadmium or zinc-chromate; 0.319 in. id, 0.591 in. od, 0.078 in. thk	"A"			9	*
0503 - LINES AND FITTINGS, HOSES, PIPES, CLAMPS							
X2 0		CLAMP, HOSE: radiator to cylinder head (GE)	(70403) A151/2			2	*
		(Supplied under Stock No. 4730-358-5965)					
X2 0	4730-358-5965	CLAMP, HOSE: water inlet pipe, top and bottom hose, cadmium plated; 1 to 3 in. id (GE)	(70403) A101/2			4	*
X2 0	4730-289-5935	CLAMP, HOSE: water pump bypass elbow, galvanized; 1/2 to 2 1/2 in. id (GE)	(74865) 870469			2	*
X2 0		(18163) 26				1	*
X2 0		COCK: drain, radiator	"A" (28835) DW1816			1	*
9 X2 0	4820-276-9041	COCK, DRAIN: radiator, brass body; male end, 3/8-18 thd size	"B" (28835) DW1816			1	*
P1 0	4720-289-0082	HOSE, PREFORMED: water pump by-pass	(74865) 918494			1	*
M 0		HOSE: radiator outlet, bottom	(28835) RJ13			1	*
MANUFACTURE FROM:							
9 P 0	4720-640-5439	HOSE, RUBBER (12 in. required)	(28835) 50W454	FT	See Group 9501	1	
M 0		HOSE: radiator outlet, bottom					
MANUFACTURE FROM:							
9 P 0	4720-640-5439	HOSE, RUBBER (12 in. required)	(28835) 50W454	FT	See Group 9501	1	
P1 0	2930-447-4278	HOSE, RUBBER: radiator to cylinder head	(28835) 50W453				
X2 0		PIPE: water inlet, radiator to water pump	(28835) DM41528			1	*
X1		WASHER: water pump by-pass elbow	(74865) 622772			1	
		(Component of GASKET SETS, Stock No. 2805-560-9323, Stock No. 2805-553-0007, Stock No. 2805-024-2076 and Stock No. 2805-620-0098, See Group 0100)					

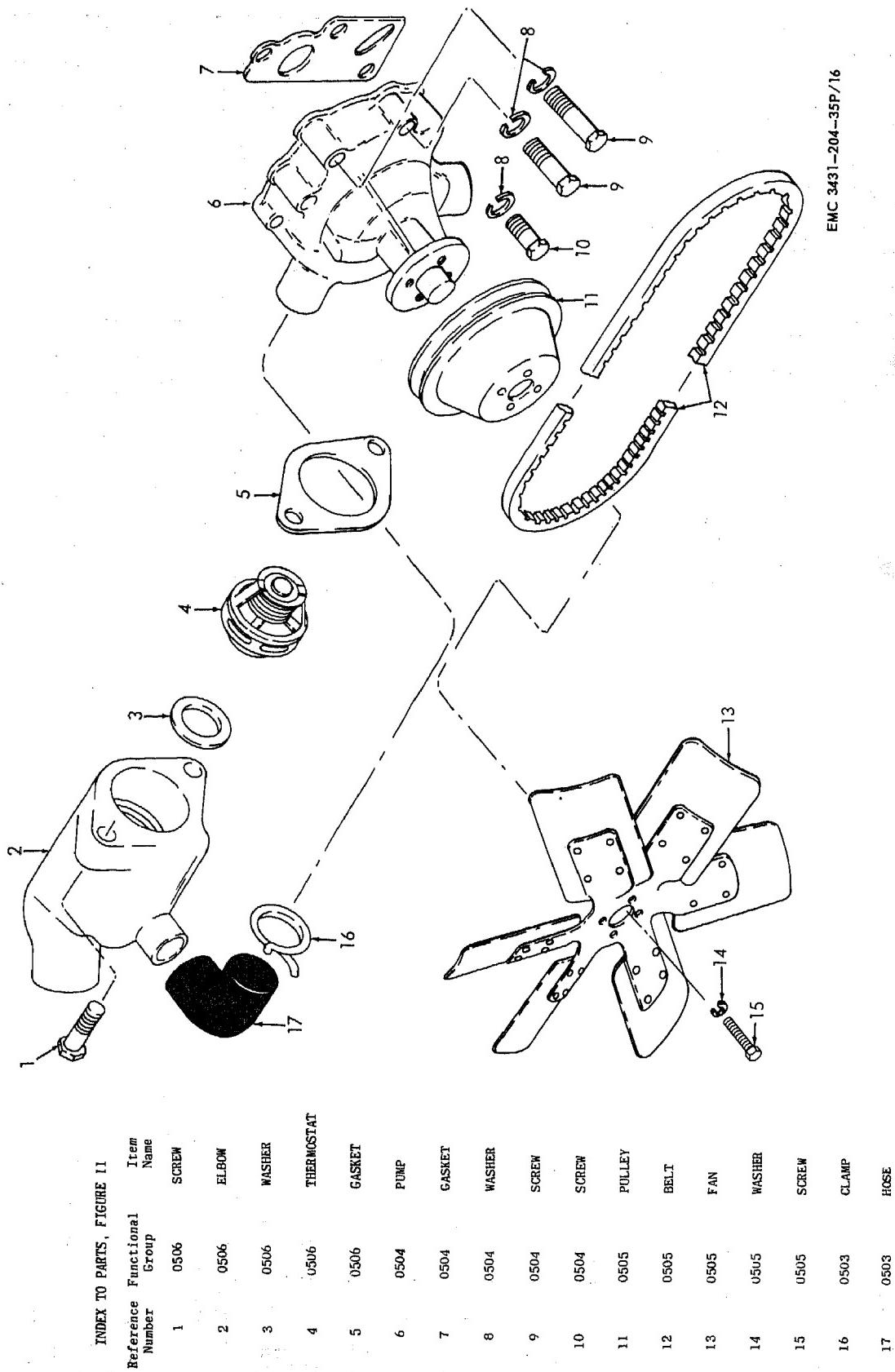
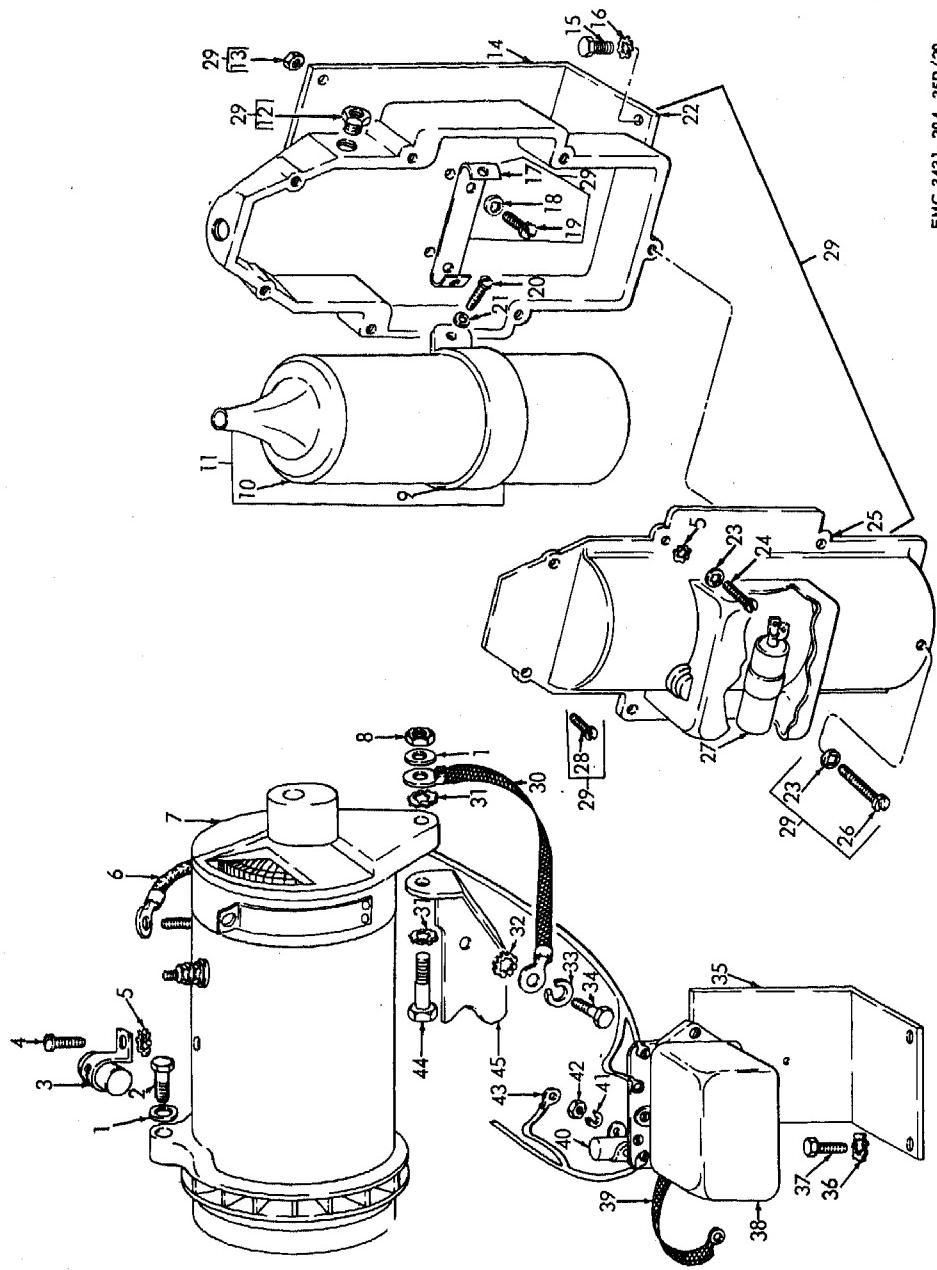


Figure 11. Water Pump, Fan, and Thermostat.

TM 5-3431-204-20P

SOURCE CODES	FEDERAL STOCK NUMBER	RECOVERY ABILITY.	MAINTENANCE SOURCE	TECHNICAL SERVICE	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS				ILLUSTRATIONS
						UNIT OF ISSUE	EXPIENDA- BILITY	QUANTITY IN UNIT	INCOGNITATO	
					0504 - WATER PUMP					
X1	2930-215-5121		GASKET: water pump to cylinder block (Component of GASKET SETS, Stock No. 2805-353-8007 and Stock No. 2805-620-0096, See Group 0100)			(74865) 637440		1		11 7
P1	0	2930-172-9509	PUMP, WATER			(74865) 1064925		1	*	11 6
9	X2	0	5305-017-5239 SCREW, MACHINE: water pump mtg. cadmium or zinc plated; 3/8-16 thd size; 1 1/8 in. lg					2	*	11 9
9	X2	0	5305-286-1502 SCREW, MACHINE: water pump mtg. cadmium or zinc plated; 3/8-16 thd size; 2 in. lg					1	*	11 10
9	X2	0	5310-637-9541 WASHER, LOCK: water pump mtg screw, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk			(74865) 120382		3	*	11 8
			0505 - FAN ASSEMBLY							
P	0	3030-529-1220 BELT, V: fan and generator				(74865) 1116206		1	*	11 12
X2	0	2930-173-2056 FAN				(74865) 593295		1	*	11 13
X2	0	GUARD ASSEMBLY, FAN				"A" (28835) DM5329A		1	*	10 10
X1		GUARD, FAN: left				"A" (28835) DM5330A		1		10 9
X1		GUARD, FAN: right				"A" (28835) DM5331A		1		10 8
9	X2	0	5310-011-0633 NUT, PLAIN, HEXAGON: fan guard mtg screw, No. 10-24 thd size "A"			(74865) 670500		2	*	10 6
X2	0	3020-366-4466 FULLER, GROOVE: fan						1	*	11 11
9	X2	0	5305-011-0500 SCREW, MACHINE: fan guard mtg. No. 10-24 thd size; 1/2 in. lg "A"					2	*	10 7
9	X2	0	5305-275-9106 SCREW, MACHINE: fan mtg to water pump hub, 5/16-16 thd size; 5/8 in. lg					4	*	11 15
9	X2	0	5305-012-5985 SCREW, TAPPING, THREAD FORMING: fan guard mtg, cadmium or zinc plated; No. 8-32 thd size; 1/4 in. lg "A"						*	11 11
9	X2	0	5310-012-0214 WASHER, LOCK: fan mtg screw to water pump hub, cadmium or zinc-chromate; 0.319 in. id, 0.591 in. od, 0.078 in. thk			(74865) 120214		4	*	10 14
			0506 - WATER MANIFOLDS, HEADERS, THERMOSTATS AND HOUSING, GASKETS							
X2	0	2805-353-7904 ELBOW, WATER OUTLET: cylinder water outlet				(74865) 1116319		1	*	11 2
X1		2930-244-8159 GASKET: cylinder water outlet elbow (Component of GASKET SETS, Stock No. 2805-560-9323, Stock No. 2805-353-8007, Stock No. 2805-620-0098, and Stock No. 2805-024-2076, See Group 0100)				(74865) 50082		1		11 5
9	X2	0	5305-286-1502 SCREW, MACHINE: water outlet elbow mtg, cadmium or zinc plated; 3/8-16 thd size; 2 in. lg					2	*	11 1
P1	0	6680-514-3995 THERMOSTAT, FLOW CONTROL: 180 deg F 3/32 in. thk				(74865) 1124989		1	*	11 4
X1		5330-298-0764 WASHER, NONMETALLIC: thermostat, rubber; 1 23/64 in. id, 1 55/64 in. od, (Component of GASKET SETS, Stock No. 2805-560-9323 and Stock No. 2805-024-2076, See Group 0100)				(74865) 863220		1		11 3



INDEX TO PARTS, FIGURE 12

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	0601	WASHER	43	0615	CABLE AY	43	0615	CABLE AY
2	0601	BOLT	44	0601	BOLT	44	0601	BOLT
3	0615	CAPACITOR						
4	0615	SCREW						
5	0615	WASHER						
6	0615	CABLE AY						
7	0601	GENERATOR AY						
8	0601	NUT						
9	0604	BRACKET						
10	0604	COIL						
11	0604	COIL						
12	0615	ADAPTER						
13	0615	NUT						
14	0615	BRACKET						
15	0615	SCREW						
16	0615	WASHER						
17	0615	BRACKET						
18	0615	WASHER						
19	0615	SCREW						
20	0604	WASHER						
21	0604	SHIELD						
22	0615	WASHER						
23	0615	SCREW						
24	0615	SHIELD						
25	0615	SCREW						
26	0615	CAPACITOR						
27	0615	SCREW						
28	0615	SHIELD						
29	0615	LEAD						
30	0615	WASHER						
31	0601	WASHER						
32	0601	SCREW						
33	0601	SCREW	40	0615	CAPACITOR			
34	0602	REGULATOR	41	0615	WASHER			
35	0602	BRACKET	42	0615	NUT			
36	0602	WASHER	39	0615	SCREW			

Figure 12. Coil, Regulator, and Generator.

INDEX TO PARTS, FIGURE 12 (cont)

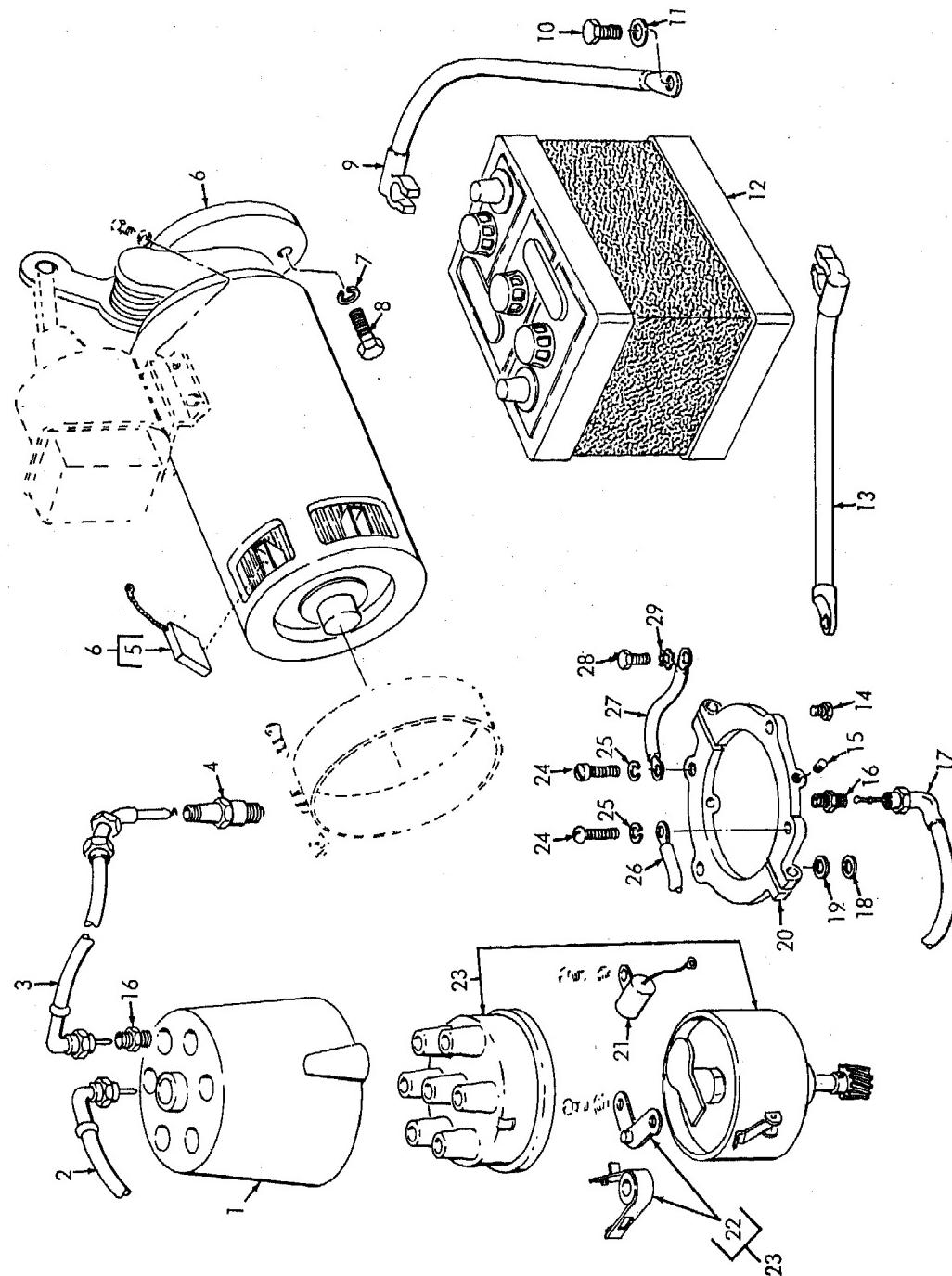
Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
29	0602	SCREW	37	0602	REGULATOR	40	0615	CAPACITOR
30	0602	SCREW	38	0602	BRACKET	41	0615	WASHER
31	0601	WASHER	39	0602	WASHER	42	0615	NUT

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			
			QUANTITY IN UNIT	15 DAYS MAINTENANCE	FIG. NO.	ILLUS. TRATIONS
MaintenancE SOURCE	RECOVER-ABILITY	EXPIRED-A UNIT OF ISSUE	BLITTY OF ISSUe	1-5 EQP	6-10 EQP	2ND ECH
GROUP 06 - ELECTRICAL SYSTEM						
		0601 - GENERATOR				
9 X2 0	5306-282-9645	BOLT, MACHINE: generator mfg, cadmium or zinc plated; 5/16-24 thd size; 1 1/4 in. lg	(74865) 123774	2	*	*
9 X2 0	5306-680-6004	BOLT, MACHINE: generator strap, cadmium or zinc-chromate; 5/16-18 thd size; 3/4 in. lg	"A" (74865) 122607	1	*	*
X2 0	2920-532-8941	BRACKET, GENERATOR	(74865) 667751	1	*	*
P1 0 R	2920-374-3702	GENERATOR, ENGINE ACCESSORY (fungus treated)	(74865) 1330241	1	*	*
		(Includes component of PARTS KIT, Stock No. 2920-723-0427)				
Z 0		GENERATOR ASSEMBLY	"B" (74865) 1257392	1		12 7
		(Replaced by GENERATOR ASSEMBLY, Stock No. 2920-374-3702)				
X2 0		NUT: generator armature, pulley	(19728) GBM210	1	*	*
9 X2 0	5310-012-0368	NUT, PLAIN, HEXAGON: generator mfg screw, cadmium or zinc-chromate; 5/16-24 thd size	(74865) 120368	2	*	*
P 0	2920-723-0427	PARTS KIT, ENTINE GENERATOR	(81336) KIT19728-12	1	*	*
X1		BEARING, A.B.S. BRONZE	(19728) SGUS9A	1		
X1	2920-293-5041	BEARING, SLEEVE (1)	(19728) GBFT9	0		
X1		BRUSH SET: generator	(19728) GGD2012AS	1		
11 X1	5970-353-7172	INSULATOR, BUSHING (2)	(19728) GGUS2	0		
X1	5340-282-5560	RING, RETAINING ARMATURE	(19728) GAR171A	1		
X1	2920-363-3939	SPRING, HELICAL, TORSION (1)	(19728) GBW45A	0		
X1	2920-664-4267	SPRING, HELICAL, TORSION	(19728) GGY45A	2		
X1		WASHER, FELT: drive head	(19728) SA195	0		
X1	5330-291-4612	WASHER, NONMETALLIC (1)	(19728) SG164A	2		
X1	5350-424-3243	WASHER, NONMETALLIC (1)	(19728) SGU50	0		
X2 0	2920-331-7648	PULLEY, GENERATOR	(19728) GDW44	0		
X2 0	5305-353-7942	SCREW, ASSEMBLED WASHER: generator adjusting strap, 5/16-18 thd size; 15/16 in. lg	"B" (74865) 1123371	1	*	*
9 X2 0	5305-266-6292	SCREW, CAP, HEXAGON HEAD: generator bracket mfg, cadmium plated; 7/16-14 thd size; 1 in. lg	(74865) 122253	2	*	*
X2 0		STRAP: generator adjusting	(74865) 1321959	1	*	*
9 X2 0	5310-017-8576	WASHER, LOCK: generator bracket mfg screw, cadmium or zinc plated; 0.456 in. id, 1.142 in. od, 0.046 in. thk	"A"	2	*	*
9 X2 0	5310-194-0743	WASHER, LOCK: generator mfg screw, cadmium or zinc-chromate; 0.466 in. id, 0.784 in. od, 0.109 in. thk	"B"	2	*	*
9 X2 0	5310-530-9309	WASHER, LOCK: generator pulley locknut, cadmium or zinc-chromate;	(74865) 625948	1	*	*
9 X2 0	5310-013-8485	WASHER, LOCK: generator strap, cadmium or zinc-chromate; 0.326 in. id, 0.599 in. od, 0.031 in. thk	"A" (74865) 178532	1	*	*
						12 31

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS. TRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. NO.	ITEM NO.	
X2 0	5310-275-6616	WASHER, SPRING TENSION: generator strap, 0.332 in. id, 13/16 in. od, 0.081 in. thk	"A" (74865) 1123372		2	*	12 1
		0601 - GENERATOR (cont)					
		0602 - GENERATOR REGULATOR					
X2 0	2920-732-7707	BRACKET: voltage regulator mtg	(26835) 5CWB14		1	*	12 35
PI 0	2920-640-7719	REGULATOR, VOLTAGE	(74865) 1330242		1	*	12 38
X1		GASKET: regulator cover	(19728) VR550C		1		
9 X2 0	5305-017-9791	SCREW, CAP, HEXAGON HEAD: regulator bracket mtg, 1/4-20 thd size; 1/2 in. lg			2	*	12 37
9 X2 0	5305-042-6930	SCREW, CAP, HEXAGON HEAD: regulator mtg, cadmium or zinc plated; 3/8-24 thd size; 1/2 in. lg	(74865) 123382		2	*	
9 X2 0	5310-528-5977	WASHER, FLAT: regulator mtg screw, cadmium or zinc-chromate; 0.406 in. id, 0.612 in. od, 0.065 in. thk	(74865) 120394		2	*	
9 X2 0	5310-017-3124	WASHER, LOCK: regulator bracket mtg, 0.262 in. id, 0.742 in. od, 0.036 in. thk			2	*	12 36
9 X2 0	5310-637-9541	WASHER, LOCK: regulator mtg screw, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk	(74865) 120382		2	*	
		0603 - STARTER					
P 0	2920-087-4862	MOTOR REPAIR KIT: starter	"B" (81336) KIT19728-52		1	*	
11 X1	5977-280-3950	BRUSH SET, ELECTRICAL CONTACT: starter	"B" (19728) M22012BS		1		13 5
11 X1	5975-143-5299	BUSHING, ELECTRICAL CONDUCTOR: insulation, terminal stud	"B" (19728) MAB85		1		
Y1	2920-695-7139	SPRING, BRUSH	"B" (19728) M219C		4		
9 X1	5310-220-6456	WASHER, FLAT: drive end	"B" (19728) MN19A		1		
X1	5330-235-5124	WASHER, NONMETALLIC: commutator end (1) (as required)	"B" (19728) MU54B				
X1	5330-291-5921	WASHER, NONMETALLIC: commutator end (1) (as required)	"B" (19728) MU54				
X1	5330-424-3278	WASHER, NONMETALLIC: insulation, terminal stud, outer	"B" (19728) MAB31A		1		
X1	5330-291-4803	WASHER, NONMETALLIC: terminal stud, inner	"B" (19728) MC139A		1		
Y1	2920-364-5974	WICK	"B" (19728) MADI10		1		
P 0	2920-715-0426	PARTS KIT, ELECTRICAL ENGINE STARTER: starter model MCL6115T	"A" (19728) KIT19728-13		1	*	
11 X1	5977-638-4296	BRUSH SET, ELECTRICAL CONTACT	(19728) M22012DS		1		
X1	2920-353-7593	END BELL, ELECTRICAL, ROTATING EQUIPMENT: commutator end	"A" (19728) MCL2030C		1		
11 X1	5977-695-7139	SPRING, HELICAL, TORSION	"A" (19728) M219C		4		
X1	2920-364-5974	WICK	"A" (19728) MADI10		1		
9 X1	5310-220-6456	WASHER, FLAT: armature drive end	"A" (19728) MN19A		1		
X1	5330-285-6578	WASHER, NONMETALLIC: commutator end	"A" (19728) MU54		1		
X1	5330-291-5921	WASHER, NONMETALLIC: commutator end (as required)	"B" (19728) MU54F				
9 X1	5330-011-5257	SCREEN, MACHINE: starter mtg	(74865) 122267		2		13 8
P1 0 R	2920-248-3648	STARTER, ENGINE, ELECTRICAL	"B" (74865) 1311459		1	*	13 6
		(Includes components of REPAIR KIT, Stock No. (81336) KIT19728-52)					

INDEX TO PARTS, FIGURE 13

Reference Number	Functional Group	Item Name
1	0604	SHIELD
2	0604	CABLE ASY
3	0604	SPARK PLUG
4	0604	BUSH SET
5	0603	STARTER
6	0603	WASHER
7	0603	SCREW
8	0603	LEAD
9	0612	SCREW
10	0612	WASHER
11	0612	BATTERY
12	0612	LEAD
13	0612	PLUG
14	0615	SETScrew
15	0615	ADAPTER
16	0615	CABLE ASY
17	0604	WASHER
18	0615	SCREEN
19	0615	COLLAR
20	0615	CAPACITOR
21	0604	CONTACT SET
22	0604	DISTRIBUTOR
23	0604	SCREW
24	0615	WASHER
25	0615	LEAD
26	0615	SCREW
27	0615	WASHER
28	0615	LEAD
29	0615	SCREW



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Figure 13. Starter, Battery, and Distributor.

SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT		ILLUS-TRATIONS	
TECHNICAL SERVICE SOURCE	Mainten-ance Source			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. NO.	ITEM NO.
X1		2920-426-4662	BAND, COVER, STARTING MOTOR (Includes components of PARTS KIT, Stock No. 2920-715-0426)	"B" (19728) MAW24	1	*	*
P1 0 R		2920-353-7396	STARTER, ENGINE, ELECTRICAL	"A" (74865) 1330243	1	*	*
X1		2920-353-7487	RELAY SOLENOID, ENGINE STARTER, ELECTRICAL	"A" (19728) SSX4103T	1		
9 X1		5310-194-0743	WASHER, LOCK: starter mtg screw		2		13 7
0603 - STARTER (cont)							
X2 0		2920-371-5450	BRACKET: ignition cables	"B" (74865) 1092857	1	*	*
P1 0			CABLE SET, SPECIAL PURPOSE ELECTRICAL: ignition, shielded	(28835) DM6381A	1	*	*
X1			CABLE: ignition, No. 1, shielded	(28835) DM6381AA	1		
X1			CABLE: ignition, No. 2, shielded	(28835) DM6381AB	1		
X1			CABLE: ignition, No. 4, shielded	(28835) DM6381AD	1		
X1			CABLE: ignition, No. 5, shielded	(28835) DM6381AE	1		
X1			CABLE: ignition, No. 6, shielded	(28835) DM6381AF	1		
X1		2920-732-7708	CABLE ASSEMBLY: ignition, No. 3, shielded	(28835) DM6381AC	1		
X1		2920-371-5451	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: coil to distributor	(28835) DM6381AG	1		
X1		2920-371-5452	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: primary	(28835) DM6381AH	1		
X2 0		2920-033-5033	STRAP, BONDING: distributor shield to engine block	(28835) DM6319	1		
A 0		2920-771-9092	COIL, IGNITION: w/o lamp	"A" (74865) 1330244	1		
P1 0		2920-224-5332	BRACKET, IGNITION COIL	"A"	1	*	*
P1 0		2920-257-1355	COIL, IGNITION: w/o lamp	"A"	1	*	*
P1 0		2920-771-9092	BRACKET, IGNITION COIL	"B"	1	*	*
P1 0		2920-224-5332	COIL, IGNITION	"B"	1	*	*
P1 0		2920-033-5074	DISTRIBUTOR, IGNITION	"B" (19728) IAD4203	1	*	*
(Includes components of PARTS KIT, Stock No. 2920-723-3128)							
P1 0 R		2920-386-3221	DISTRIBUTOR, IGNITION SYSTEM	"A" (74865) 1321787	1	*	*
(Includes components of PARTS KIT, Stock No. 2920-715-0430)							
X1			ARM, ADVANCE	"A" (19728) IGS114A	1		
X1			CUP, OIL LUBRICATING	"A" (19728) X1590	1		
X1			WASHER, FLAT: advance arm	"A" (19728) SH634B	1		
9 X2 0		5310-012-0363	NUT, PLAIN, HEXAGON: coil mtg bracket, cadmium or zinc-chromate; 5/16-24 thd size	"B" (74865) 120368	2	*	*
9 X2 0		5310-012-0368	NUT, PLAIN, HEXAGON: coil mtg bracket stud, cadmium or zinc-chromate; 5/16-24 thd size	"A" (74865) 102368	1	*	*
X2 0		5310-266-0458	NUT, PLAIN, HEXAGON: coil terminal stud, cadmium or zinc plated; 1/4-28 thd size	(74865) 120367	2	*	*
9 X2 0		5310-042-6903	NUT, PLAIN, HEXAGON: coil terminal stud, cadmium or zinc plated; No. 10-32 thd size	(74865) 120614	2	*	*

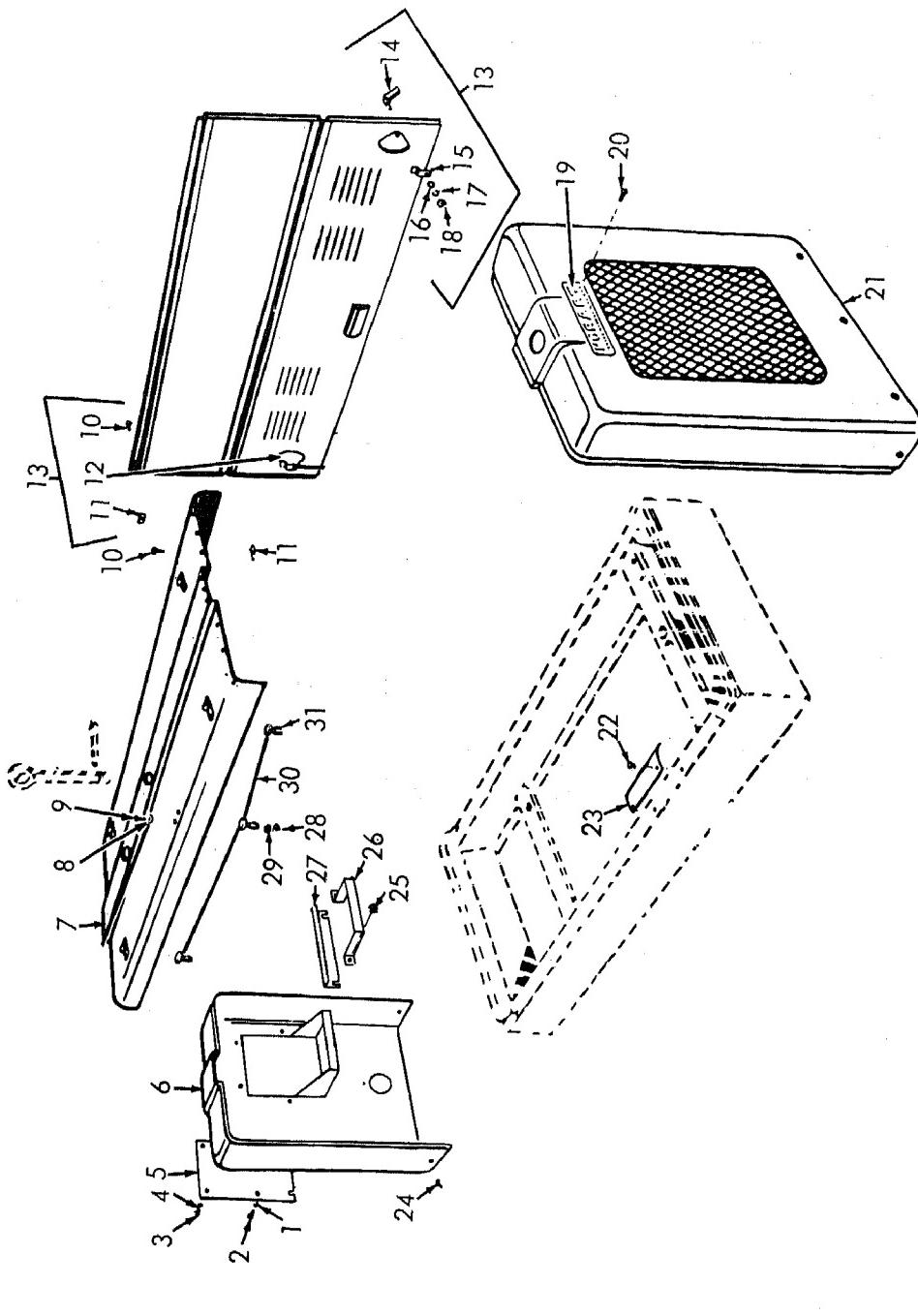
P	0	2920-715-0430	PARTS KIT, IGNITION DISTRIBUTOR	"A" (81336) KIT19728-16	1	*	*	
X1		3120-505-8712	BEARING, SLEEVE: base assembly, absorbic bronze	"A" (19728) IGS1016B	2			
11	X1	5910-358-6842	CAPACITOR, FIXED, PAPER DIELECTRIC	"A" (19728) IAT3076DS	1			13 21
X1		2920-480-7472	CONTACT SET, DISTRIBUTOR	"A" (19728) IGP3029WS	1			13 22
X1		5340-200-7415	RING, RETAINING: cam retaining	"A" (19728) IGS1016B	1			
X1		2920-362-3002	ROTOR, IGNITION DISTRIBUTOR	"A" (19728) IGS99	1			
X1		2920-630-9889	SPACER, DRIVE SHAFT	"A" (19728) IGS90	1			
9	X1	5310-530-7883	WASHER, FLAT: drive shaft lower	"A" (19728) IAO-10	1			
9	X1	5310-426-4576	WASHER, SHOULDER: inner drive shaft upper	"A" (19728) IAO-11	1			
X1		3120-426-4577	WASHER, THRUST: outer drive shaft upper	"A" (19728) IGS117	1			
10	X1	9380-360-6831	WICK, FELT	"A" (19728) IGS117	1			
X1		2920-281-8623	WICK, FELT: cam sleeve	"A" (19728) IGS28	1	*	*	
P	0	2920-723-3128	PARTS KIT, IGNITION DISTRIBUTOR	"B" (81336) KIT19728-21	1			
X1			BEARING: base assembly, absorbic bronze	"B" (19728) IGS7A	2			
11	X1	5910-161-8881	CAPACITOR, FIXED, PAPER DIELECTRIC	"B" (19728) IGM3139	1			13 21
X1		2920-288-3143	CONTACT SET, DISTRIBUTOR	"B" (19728) IGP3029ES	1			13 22
11	X1	5970-360-8101	INSULATOR, BUSHING: insulating, terminal stud	"B" (19728) IAD10	1			
X1		5970-360-8105	INSULATION, PLATE: terminal stud, inner	"B" (19728) IAD8	1			
X1		5340-200-7414	RING, RETAINING: cam	"B" (19728) IGS680	1			
X1		2920-640-7295	ROTOR, IGNITION DISTRIBUTOR	"B" (19728) IGS1016B	1			
X1		2920-630-9888	SPACER, DRIVE SHAFT: cam	"B" (19728) IGS99	1			
9	X1	5310-530-7283	WASHER, FLAT: drive shaft, lower	"B" (19728) IGS90	1			
X1			WASHER: insulating, terminal stud	"B" (19728) IDL9	1			
X1		5310-358-8345	WASHER, RECESSED: drive shaft, upper	"B" (19728) IGS104	1			
X1		5310-428-4576	WASHER, SHOULDered (1)	"B" (19728) IAO-10	0			
X1		3120-428-4577	WASHER, THRUST	"B" (19728) IAO-11	1			
10	X1	9390-360-6831	WICK, FELT	"B" (19728) IGS117	1			
X1		2920-281-8623	WICK, FELT: cam sleeve	"B" (19728) IGR28	1			
X2	0	2920-217-3505	PIPE: distributor oil cup extension	"A" (28935) DM6357	1	*	*	
X2	0		PLATE: distributor lock	"A" (74865) 1502251	1	*	*	
X2	0		PLATE: distributor lock	"B" (74865) 866069	1	*	*	
X2	0		POINTER: distributor lock plate	"A" (74865) 1323934	1	*	*	
A	0	5305-208-1503	SCREW, ASSEMBLED WASHER: distributor hold down	"A" (74865) 937471	1			
9	X2	0	5305-639-8115	SCREW, CAP, HEXAGON HEAD: cadmium or zinc-chromate; 1/4-20 thd size; "A"	1	*	*	
			3 1/4 in. lg					
9	X2	0	5310-012-1753	WASHER, LOCK: cadmium or zinc-chromate, 0.262 in. id. 0.502 in. od, "A"	1	*	*	
			0.025 in. thk					
9	X2	0	5305-262-9666	SCREW, MACHINE: coil mtg, 1/4-20 thd size; 1/2 in. lg	2	*	*	12 20
9	X2	0	5305-776-7683	SCREW, MACHINE: distributor clamp, cadmium plated; 1/4-20 thd size;	1	*	*	
			5/8 in. lg					
9	X2	0	5305-013-2259	SCREW, MACHINE: distributor hold down, cadmium or zinc plated; 1/4-20 thd size; 5/8 in. lg	"B" (74865) 132259	1	*	*
9	X2	0	5305-013-2900	SCREW, MACHINE: distributor terminal wire, cadmium or zinc plated; No. 10-32 thd size; 3/8 in. lg	"A" (74865) 132900	1	*	*
					"A" (74865) 1264933	1	*	*
X2	0		SLEEVE: ignition coil primary cable terminal	"B" (74865) 926026	1	*	*	
X2	0		SLEEVE: ignition coil primary cable terminal	(74865) 1345631	1	*	*	
X2	0		SLEEVE: ignition coil, secondary cable	"A" (74865) AR4S	6	6	12	13 4
P	0	2920-246-1618	SPARK PLUG	(Minimum stockage of 6 is authorized)				

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS			
			1-5 EQP	6-10 EQP	15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH
		0604 - IGNITION COMPONENTS (cont)				
X1	5330-245-5503	GASKET: spark plug (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)	"A" (74865) 150189	6		
P 0	2920-294-3867	SPARK PLUG (Minimum stockage of 6 is authorized)	"B" (19728) ARBS	6	6	12
X1	5330-245-5503	GASKET: spark plug (Component of GASKET SET, Stock No. 2805-620-0098, See Group 0100)	"B" (74865) 150189	6		
9 X2 0	5307-010-3173	STUD, PLAIN: coil mtg bracket, one end 5/16-18 thd size; other end 5/16-24 thd size; 1 1/4 in. lg.	"A" (74865) 103173	1	*	*
9 X2 0	5307-010-3173	STUD, PLAIN: coil mtg bracket, one end, 5/16-18 thd size; other end, 5/16-24 thd size; 1 1/4 in. lg.	"B" (74865) 103173	2	*	*
X2 0		TUBE: ignition cables	"A" (74865) 1188452	1	*	*
9 X2 0	5310-044-6192	WASHER, FLAT: distributor clamp, brass; 0.265 in. id, 0.625 in. od, 0.049 in. thk	"A" (74865) 1188452	1	*	*
9 X2 0	5310-194-1540	WASHER, FLAT: distributor clamp, cadmium or zinc-chromate; 0.281 in. id, 0.625 in. ad, 0.065 in. thk	"B" (74865) 1345632	1	*	*
X2 0	5310-013-8485	WASHER: ignition coil secondary cable	"B" (74865) 1345632	1	*	*
9 X2 0	5310-013-8485	WASHER, LOCK: coil mtg bracket, cadmium or zinc-chromate; 0.326 in. id, 0.599 in. od, 0.031 in. thk	"A" (74865) 138485	1	*	*
9 X2 0	5310-013-8485	WASHER, LOCK: coil mtg bracket stud, cadmium or zinc-chromate; 0.326 in. id, 0.599 in. od, 0.031 in. thk	"B" (74865) 138485	2	*	*
9 X2 0	5310-582-5965	WASHER, LOCK: coil mtg, cadmium-chromate; 0.255 in. id, 0.062 in. thk	"B" (74865) 138485	2	*	*
9 X2 0	5310-582-5965	WASHER, LOCK: distributor clamp, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk	"B" (74865) 120380	1	*	*
9 X2 0	5310-013-1098	WASHER, LOCK: distributor clamp, cadmium or zinc-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk	"B" (74865) 131098	1	*	*
9 X2 0	5310-013-8479	WASHER, LOCK: distributor terminal wire, cadmium or zinc-chromate; 0.200 in. id, 0.402 in. od, 0.023 in. thk	"B" (74865) 138479	3	*	*
X2 0	5330-298-0793	WASHER, NONMETALLIC: distributor to crankcase, cork; 1.375 in. id, 1.395 in. od, 3/16 in. thk	"B" (74865) 41928	1	*	*
		0607 - INSTRUMENT OR ENGINE CONTROL PANEL				
11 P1 0	6625-252-5545	AMMETER: battery charging 30-0-30	"B" (28835) SCN1046A	1	*	*
11 P1 0	5930-272-1331	SWITCH, LOCK, IGNITION	"B" (28835) DM1014	1	*	*
11 P1 0	5930-256-1109	SWITCH, PUSH: start, dc, 20v, 20 amps	"B" (28835) ES570A	1	*	*
11 P1 0	5930-258-5541	SWITCH, TOGGLE: engine canopy lights	"B" (28835) FM1312	1	Sec Group	9901
P 0	6240-155-8694	LAMP, INCANDESCENT: canopy light, 6-8v, No. 1130	6069 - LIGHTS	3	*	*

	P1	0	6250-371-5476	LAMP HOLDER: canopy, engine illuminating (GE)	(28835) DW346	3	*	*	14	31
9	X2	0	5310-275-1706	NUT, PLAIN, HEXAGON: wiring, lamp mtg screw, No. 6-32 thd size		6	*	*	14	28
9	X2	0	5305-010-0737	SCREW, MACHINE: wiring harness, lamp mtg, No. 6-32 thd size; 3/8 in. lg		6	*	*	14	9
9	X2	0	5310-010-6495	WASHER, LOCK: wiring, lamp mtg, 0.141 in. id, 0.253 in. od, 0.031 in. thk		6	*	*	14	29
9	X2	0	5310-011-5643	WASHER, LOCK: wiring, lamp mtg, 0.145 in. id, 0.285 in. od, 0.019 in. thk		6	*	*	14	8
9	X2	0	3432-429-0965	WIRING HARNESS, CANOPY LIGHTS	(28835) DW1153	1	*	*	14	30
				0612 - BATTERIES, STORAGE, WET OR DRY						
				BAR: battery supporting	(28835) DW1002	1	*	*	14	27
9	X2	0	6140-191-9509	BATTERY, STORAGE: 6v	(28835) DM5094	1	*	*	13	12
9	X2	0	5306-577-0458	BOLT, MACHINE: battery clamp to rear panel, 5/16-18 thd size, 1 in. lg "B"		2	*	*	15	18
				CLAMP: battery cable	"A" (74865) 50M5306	2	*	*	5	27
11	X2	0	6140-429-0958	HOLDER, BATTERY	(28835) CW899	1	*	*	14	26
11	X2	0	6140-636-1821	LEAD, STORAGE BATTERY: battery to starter	(28835) DM6394	1	*	*	13	13
11	P1	0	6140-636-7805	LEAD, STORAGE BATTERY: ground, No. 1 AWG for 7/16 in. stud size	(28835) BW709	1	*	*	13	9
11	P1	0	5310-010-2634	NUT, PLAIN, HEXAGON: battery holder clamp to rear panel, 5/16-18 thd "B" size		2	*	*		
9	X2	0	5310-010-9084	NUT, PLAIN, HEXAGON: battery holder to rear panel, 1/4-20 thd size "A"		2	*	*	14	25
9	X2	0	5310-050-3270	NUT, SELF-LOCKING, HEXAGON: battery clamp to rear panel, 5/16-18 thd size "B"		2	*	*	15	17
9	X2	0	5305-010-6974	SCREW, CAP, HEXAGON HEAD: battery ground lead, 3/8-16 thd size; 1/2 in. lg size		1	*	*	13	10
9	X2	0	5305-261-1622	SCREW, CAP, HEXAGON HEAD: battery holder to rear panel, 1/4-20 thd size; 3/4 in. lg		2	*	*		
9	X2	0	5305-261-1622	SCREW, CAP, HEXAGON HEAD: battery holder to rear panel, 1/4-20 thd size; 3/4 in. lg	GAL	1	*	*		
3	P	0	6810-249-9354	SULFURIC ACID, ELECTROLYTE (as required)					14	2
9	X2	0	5310-044-6362	WASHER, FLAT: battery ground lead, 3/8 in. id, 7/8 in. od, 3/32 in. thk					13	11
9	X2	0	5310-010-3319	WASHER, LOCK: battery holder to rear panel, 0.255 in. id, 0.493 in. od, "A" 0.062 in. thk		2	*	*	14	1
				0615 - RADIO INTERFERENCE SUPPRESSION						
				ADAPTER: spherical joint, distributor shield collar	(28835) DW6327	1	See Group	9901	13	16
				BRACKET: ignition coil shield mtg	(28835) DM6320	1	*	*	12	14
				CABLE ASSEMBLY: ammeter to voltage regulator, special purpose, electrical	(28835) 47CS647	1	*	*	12	43
				CABLE ASSEMBLY: generator armature to voltage regulator, special purpose, electrical	(28835) 11AC647	2	*	*	12	6
11	P	0	5910-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: ignition coil	(28835) DW5133AH	1	See Group	9901	12	3
11	P	0	5910-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: ignition coil	(28835) DW5133AD	1	See Group	9901	12	27
11	P	0	5910-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: voltage regulator	(28835) DM5133AC	1	*	*	12	40
				COLLAR: distributor shield	(28835) DM6328	1	*	*	13	20
X2	0			COLLAR: distributor shield	"A" (28835) DM6116	1	*	*	13	27
P1	0			LEAD, ELECTRICAL: bonding, distributor shield to engine block	(28835) DM6318	1	*	*	13	26
P1	0			LEAD, ELECTRICAL: bonding, distributor to ignition coil shield	(28835) DM6317	1	*	*	12	30
X2	0			LEAD, ELECTRICAL: generator bending	(28835) DM6317	1			12	39
M	0			MANUFACTURE FROM:						
				BAUD, WIRE (8 in. required)						
				TERMINAL, LOG: brass; No. 10 AWG, for 1/4 in. stud						
				TERMINAL, LIG: copper, tinned finish; No. 8 AWG, for No. 10 screw size						
9	X2	0	5310-010-9084	NUT, PLAIN, HEXAGON: regulator lead screw, 1/4-20 thd size		3	*	*	12	42
				PLUG, PIPE: distributor shield, 1/4-18 thd size (GE)		1	*	*	13	14
X2	0			PLUG, PIPE: distributor shield, 1/4-18 thd size (GE)						

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	RECOVERY-ABILITY	MAINTENANCE-SOURCE	TECHNICAL-SERVICE	EXPERIMENTAL-UNIT OF ISSUE	QUANTITY IN UNIT	ORGANIZATIONAL MAINTENANCE	GUIDE QUANTITIES PER MAJOR EQUIPMENT	ILLUSTRATIONS	FIG. NO.	ITEM NO.
									15 DAYS	2ND ECH	1-5 EQP	6-10 EQP
0615 - RADIO INTERFERENCE SUPPRESSION (cont.)												
9 X2 0	5305-174-2937	SCREEN: vent, distributor shield					(28835) DM6322		1	*	*	13 19
9 X2 0	5305-017-9837	SCREEN CAP, HEXAGON HEAD: distributor bonding strap to engine block, 3/8-16 thd size; 3/4 in. lg							1	*	*	13 28
9 X2 0	5305-021-3761	SCREEN, CAP, HEXAGON HEAD: generator bond lead, 7/16-14 thd size; 1 in. lg							2	*	*	
9 X2 0	5305-017-9791	SCREW, CAP, HEXAGON HEAD: ignition coil shield mtg, 1/4-20 thd size; No. 10-32 thd size; 5/8 in. 1g							2	*	*	12 15
9 X2 0	5305-010-0765	SCREW, MACHINE: bonding strap, distributor shield to ignition coil, 1/2 in. 1g							1	*	*	12 24
9 X2 0	5305-206-3339	SCREW, MACHINE: bonding strap, distributor shield to ignition coil, passivated finish, No. 10-32 thd size; 3/4 in. lg							1	*	*	
9 X2 0	5305-150-9611	SCREW, MACHINE: bonding strap distributor shield to ignition coil, No. 10-32 thd size; 3/4 in. lg							1	*	*	
9 X2 0	5305-022-6404	SCREW, MACHINE: bonding strap, distributor to ignition coil, No. 10-32 thd size; 5/8 in. lg							1	*	*	
9 X2 0	5305-011-0499	SCREW, MACHINE: capacitor mtg, No. 10-24 thd size; 3/8 in. lg							1	*	*	
9 X2 0	5305-011-0489	SCREW, MACHINE: distributor bonding strap, No. 10-24 thd size; 3/4 in. 1g							1	*	*	
9 X2 0	5305-011-0502	SCREW, MACHINE: distributor bonding strap, No. 10-24 thd size; 3/4 in. 1g							2	*	*	13 24
9 X2 0	5305-010-0749	SCREW, MACHINE: generator capacitor mtg, No. 8-32 thd size; 1/4 in. lg							1	*	*	
9 X2 0	5305-011-3958	SCREW, MACHINE: regulator bond lead, 1/4-20 thd size; 7/8 in. lg							1	*	*	12 4
9 X2 0	5305-285-4620	SETSCREW: distributor shield collar, cadmium or zinc plated; 1/4-20 thd size; 7/8 in. lg							2	*	*	
X2 0	2920-371-5447	SHIELD, IGNITION SYSTEM, DISTRIBUTOR ADAPTER: spherical joint coil shield					(28835) DM6321		1	*	*	13 15
X2 0	2920-371-8968	SHIELD, IGNITION DISTRIBUTOR ADAPTER: spherical joint, distributor shield					(28835) DM6327		7	See Group	9901	12 12
X2 0	2920-371-5449	SHIELD ASSEMBLY, IGNITION COIL ADAPTER, COIL TO DISTRIBUTOR LEAD: spark coil resistor mtg					(28835) DM6324		1	*	*	13 1
X2 0	5935-024-2198	ADAPTER, COIL TO DISTRIBUTOR LEAD: spark coil resistor mtg					(28835) DM6331		1	*	*	
X2 0	5935-010-9084	NUT, PLAIN, HEXAGON: coil shield bracket, 1/4-20 thd size					(28835) DM6327		2	See Group	9901	12 17
X2 0	5905-011-0489	SCREW, MACHINE: shield bracket, 1/4-20 thd size; 1 in. lg					(28835) DM6335		1	*	*	12 13
X2 0	5905-275-3927	SCREW, MACHINE: shield top, coil, No. 10-24 thd size; 5/8 in. lg							2	*	*	12 19
X2 0	5905-022-4592	SCREW, MACHINE: shield top, coil, No. 10-24 thd size; 1 1/4 in. lg							5	*	*	12 28
X1	2920-371-5448	SHIELD, IGNITION COIL: bottom					(28835) DM6330		1	*	*	12 26
X1	P1 0	SHIELD: top, ignition coil					(28835) DM6329		1	*	*	12 22
9 X2 0	5310-011-5547	SUPPRESSOR, IGNITION INTERFERENCE: resistor coil to distributor head					(28835) DM6390		1	*	*	12 25
9 X2 0	5310-010-6497	WASHER, LOCK: coil shield bracket, 0.262 in. id, 0.469 in. od, 0.251 in. thk							2	*	*	12 18
X2 0		WASHER, LOCK: shield top screw, 0.194 in. id, 0.337 in. od, 0.047 in. thk							6	*	*	12 23
		STRAP: bonding distributor shield to engine block					(28835) DM6319		1	*	*	

X2 0	5310-262-3001	WASHER, FLAT: vent. distributor shield, cadmium plated; 1/4 in. id., 29/64 in. od. 1/32 in. thk	(28835) DM6323		1	*	*	13	18
9 X2 0	5310-011-5547	WASHER, LOCK: bonding strap, distributor shield to ignition coil, 0.262 in. id. 0.469 in. od. 0.025 in. thk		2	*	*			
-9 X2 0	5310-017-3122	WASHER, LOCK: bond strap, distributor shield to ignition coil screw; 0.200 in. id. 0.595 in. od. 0.031 in. thk		1	*	*	12	5	
9 X2 0		WASHER, LOCK: capacitor mtg screw (Supplied under Stock No. 5310-017-3122)		2	*	*			
9 X2 0	5310-017-6554	WASHER, LOCK: distributor bonding strap screw, 0.391 in. id. 1.058 in. od. 0.046 in. thk		1	*	*	13	29	
9 X2 0	5310-010-6497	WASHER, LOCK: distributor bonding strap, 0.194 in. id. 0.337 in. od. 0.047 in. thk		2	*	*	13	25	
9 X2 0	5310-017-8576	WASHER, LOCK: generator bond lead, cadmium or zinc plated; 0.456 in. id. 1.142 in. od. 0.046 in. thk		2	*	*			
9 X2 0	5310-010-5322	WASHER, LOCK: generator bond lead, plain, 0.446 in. id. 0.784 in. od. 0.109 in. thk		2	*	*			
9 X2 0	5310-017-8367	WASHER, LOCK: generator capacitor mtg screw, 0.172 in. id. 0.680 in. od. 0.031 in. thk		1	*	*			
9 X2 0	5310-017-3124	WASHER, LOCK: ignition coil shield mtg screw, 0.262 in. id. 0.742 in. od. 0.036 in. thk		2	*	*	12	16	
9 X2 0	5310-010-3319	WASHER, LOCK: regulator bond lead screw 0.255 in. id. 0.493 in. od. 0.062 in. thk		3	*	*			
9 X2 0	5310-017-3124	WASHER, LOCK: regulator bond lead screw, 0.262 in. id. 0.742 in. od. 0.036 in. thk		4	*	*	12	41	
			GROUP 17 - BODY; CAB; HOOD; HULL ASSEMBLIES						
			1700 - BODY, CAB, HOOD, HULL ASSEMBLIES						
9 X2 0	5306-577-5458	BOLT, MACHINE: hood clamping strap to radiator and rear strap to hood, "B" 5/16-18 thd size; 1 in. lg		7	*	*	15	7	
9 X2 0	5306-032-7776	BOLT, MACHINE: rear clamping strap to hood, cadmium or zinc plated; 5/16-18 thd size; 1 1/4 in. lg	"B"	3	*	*	15	23	
X2 0	3431-802-6792	CANOPY, HOOD: rear	"B" (28835) DM1168C	1	*	*	15	22	
X2 0		BAR: battery supporting	"B" (28835) DM1002	1	See Group	0612			
9 X2 0	5306-577-5458	BOLT, MACHINE: battery holder to rear panel, 5/16-18 thd size; 1 in. lg	"B"	2	See Group	0612			
9 X2 0	3432-325-5107	COVER, PLATE, ACCESS: battery	"B" (28835) DM999	1	*	*	15	19	
11 X2 0	6140-429-0956	HOLDER, BATTERY	"B" (28835) CM899	1	See Group	0612			
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: battery hold down clamp to rear panel, 5/16-18 thd size	"B"	2	See Group	0612			
9 X2 0	5310-050-3270	NUT, SELF-LOCKING, HEXAGON: battery holder to rear panel, 5/16-18 thd size	"B"	2	See Group	0612			
9 X2 0	5305-699-6995	SCREW, TAPPING, THREAD FORMING: battery access door to rear canopy, cadmium or zinc plated; 1/4-20 thd size; 3/8 in. lg	"B"	4	*	*	15	21	
9 X2 0	5310-010-3319	WASHER, LOCK: battery access door to rear canopy, 0.255 in. id. 0.493 in. od. 0.062 in. thk	"B"	4	*	*	15	20	
9 X2 0	3432-325-5107	COVER PLATE, ACCESS: battery	"A" (28835) DM999	1	*	-R	14	5	
9 X2 0	3431-047-4692	DOOR, HOOD	"B" (28835) DM3131A	2	*	*	15	4	
X2 0	3432-325-5124	DOOR, HOOD: side	"A" (28835) 3DW224	2	*	*	14	13	
X2 0	6115-321-4545	HANDLE ASSEMBLY: door latch	"A" (28835) HF564	4	*	*	14	14	

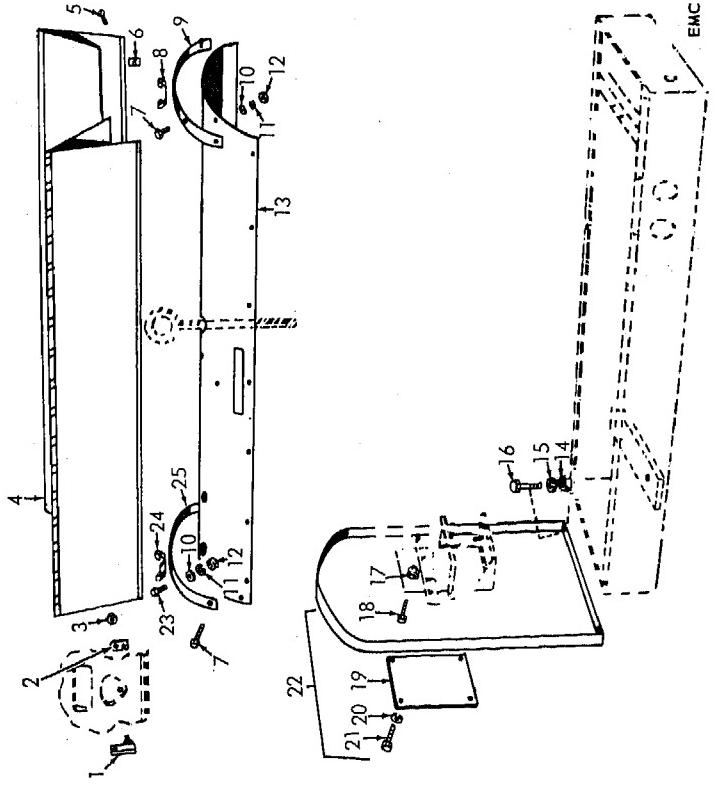


PARTS, FIGURE 14

Functional Group	Item Name
0612	WASHER
0612	SCREW
1700	SCREW
1700	WASHER
5	COVER
6	PANEL
7	PANEL
8	WASHER
9	SCREW
10	SCREW
11	NUT
12	LATCH
13	DOOR
14	HANDLE AY
15	LATCH
16	WASHER
17	WASHER
18	NUT
19	PLATE
20	SCREW
21	PANEL
22	SCREW
23	SHIELD
24	SCREW
25	NUT
26	HOLDER
27	BAR
28	NUT
29	WASHER
30	WIRING HARNESS
31	LAMPHOLDER

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Figure 14. Panels and Door for Symbol (A).



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INDEX TO PARTS, FIGURE 15

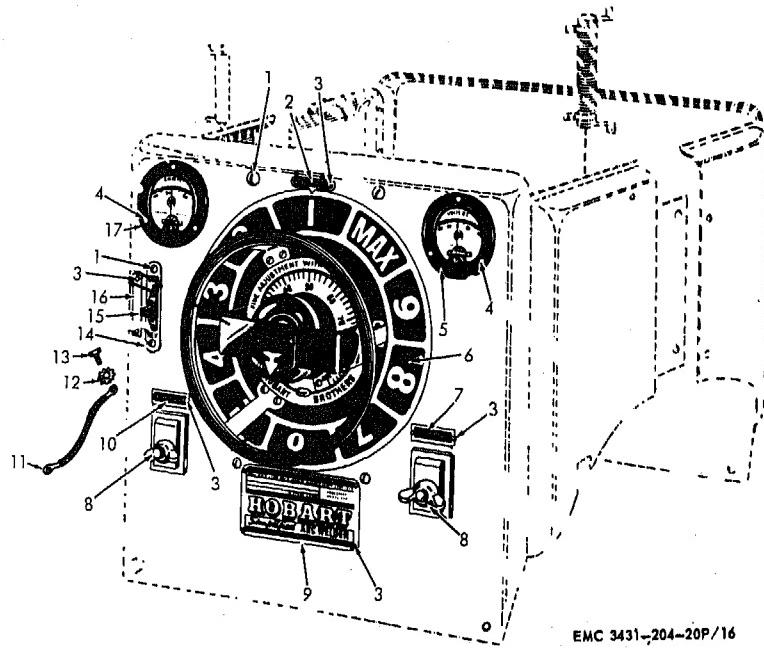
Reference Number	Functional Group	Item Name
1	1700	HANDLE
2	1700	LATCH
3	1700	NUT
4	1700	DOOR
5	1700	SCREW
6	1700	NUT
7	1700	BOLT
8	1700	LOCK
9	1700	STRAP
10	1700	WASHER
11	1700	WASHER
12	1700	NUT
13	1700	PANEL
14	1700	NUT
15	1700	WASHER
16	1700	SCREW
17	0612	NUT
18	0612	BOLT
19	1700	COVER
20	1700	WASHER
21	1700	SCREW
22	1700	CANOPY
23	1700	BOLT
24	1700	LOCK
25	1700	STRAP

Figure 15. Side Panels and Canopy for Symbol (B).

SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUSTRATIONS
TECHNICAL SERVICE	SOURCE			RECOVERY ABILITY	MAINTENANCE	15 DAYS IN UNIT	
ITEM NO.	ITEM NO.	UNIT OF ISSUE	ABILITY OF ISSUE	ORGANIZATION	MAINTENANCE	ITEM NO.	FIG. NO.
1700 - BODY, CAB, HOOD, HULL ASSEMBLIES (cont.)							
X2	0		LATCH, DOOR: left	"A" (28835) 3DW248		2	*
X2	0		LATCH, DOOR: right	"A" (28835) 3DW249		2	*
9	0	5310-010-2634	NUT, PLAIN, HEXAGON: door latch, 5/16-18 thd size	"A"	4	*	14
9	0	5310-012-6599	NUT, PLAIN, PLATE: side door assembly mtg. No. 10-24 thd size	"A"	14	*	18
9	0	5305-011-0499	SCREW, MACHINE: side door assembly, No. 10-24 thd size; 3/8 in. lg	"A"	14	*	11
9	0	5310-010-6261	WASHER, FLAT: door latch, 5/16 in. id, 3/4 in. od, 1/16 in. thk	"A"	4	*	10
9	0	5310-010-3320	WASHER, LOCK: door latch, 0.319 in. id, 0.591 in. od, 0.078 in. thk	"A"	4	*	16
X2	0	2805-732-1232	FASTENER: door, left	"A" (28835) 3DW276	1	*	17
X2	0						*

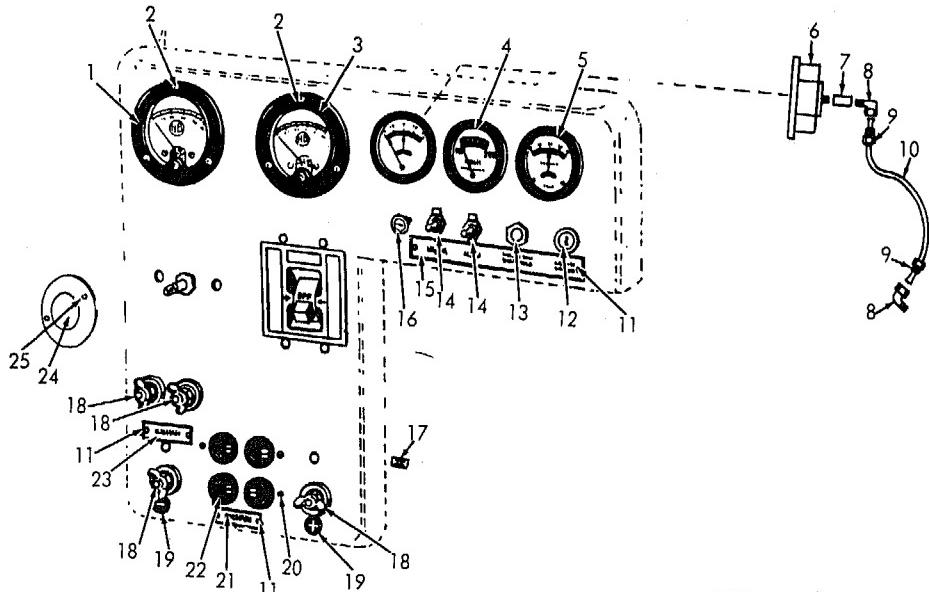
INDEX TO PARTS, FIGURE 16

Reference Number	Functional Group	Item Name
1	4410	SCREW
2	2210	PLATE
3	2210	SCREW
4	4407	SCREW
5	4407	VOLTMETER
6	4410	RESISTOR
7	2210	PLATE
8	4408	CLAMP
9	2210	PLATE
10	2210	PLATE
11	4414	LEAD
12	4414	WASHER
13	4414	SCREW
14	2210	PLATE
15	4410	SWITCH
16	2210	PLATE
17	4407	AMMETER



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Figure 16. Control Panel Components.



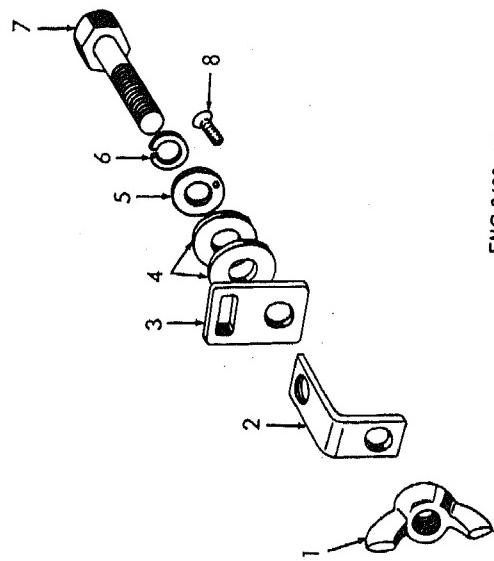
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Figure 17. Auxiliary Control Panel Components.

INDEX TO PARTS, FIGURE 17

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4407	AMMETER	10	4702	TUBE	18	4408	STUD
2	4407	SCREW	11	2210	SCREW	19	2210	TRANSFER
3	4407	VOLTMETER	12	0607	SWITCH	20	4408	SCREW
4	4702	THERMOMETER	13	0607	SWITCH	21	2210	PLATE
5	0607	AMMETER	14	0607	SWITCH	22	4408	CONNECTOR
6	4702	GAGE	14	4410	SWITCH	23	2210	PLATE
7	4702	COUPLING	15	2210	SWITCH	24	2210	PLATE
8	4702	ELBOW	16	0312	PLATE	25	2210	PLATE
9	4702	INVERTED NUT	17	4408	CONTROL NUT			SCREW

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS			
			RECOVERY-ABILITY	MaintenancE SOURCE	ORGANIZATIONAL MAINTENANCE	ITEM NO.
TECHNICAL SERVICE	RECOVERY-ABILITY	RECOVERY-ABILITY	1-5 EQP	15 DAYS 2ND ECH	1-10 EQP	ILLUS-TRATIONS
4407 - CONTROL PANELS, HOUSING, CUBICLES (cont)						
9 X2 0	5305-282-1041	SCREW, TAPPING, THREAD FORMING: generator ammeter and voltmeter mtg, No. 4-24 thd size; 3/8 in. lg	6	*	*	16 4
9 X2 0	5305-210-5369	SCREW, TAPPING, THREAD FORMING: generator voltmeter and ammeter mtg, cadmium or zinc plated; No. 4-24 thd size; 1/2 in. lg	6	*	*	17 2
11 P1 0	6625-244-5673	VOLTMETER: auxiliary generator control panel	(28835) BM1902	1	*	17 3
11 P1 0	6625-244-5672	VOLTMETER: generator, 100-0-100 dc	(28835) BM713A	1	*	16 5
4408 - CONNECTING DEVICES						
11 X2 0	5975-447-4235	CLAMP, ELECTRICAL: ground and electrode	(28835) 5CW985	2	*	16 8
X2 0		BUS BAR: cable connector	(28835) 5CW974	2	*	18 2
11 X2 0	5970-698-7191	INSULATOR, PLATE: batellite	(28835) 5CW975	2	*	18 3
9 X2 0	5310-010-3131	NUT, PLAIN, WING: cable connecting, 1/2-13 thd size	(28835) AW750	2	*	18 1
9 X2 0	5305-017-9887	SCREW, CAP, HEXAGON HEAD: ground and electrode connector, 1/2-13 thd size; 1 3/4 in. lg	(28835) AW813	2	*	18 7
9 X2 0	5305-011-0985	SCREW, MACHINE: voltmeter cable connector washer, No. 6-32 thd size; 3/16 in. lg	(28835) AW368	2	*	18 8
X2 0		WASHER, FLAT: voltmeter connection	(28835) 5CW976	2	*	18 5
9 X2 0	5310-213-1215	WASHER, LOCK: connector screw, 0.509 in. id, 0.879 in. od, 0.125 in. thk 1 1/4 in. thk	(28835) 5CW977	2	*	18 6
X2 0		CONNECTOR, RECEPTACLE, ELECTRICAL: auxillary control panel, double three pole outlet, 15 amp, 125V	(28835) GE2989	2	*	17 22
9 X2 0	5310-010-3823	WASHER, STAMPED: receptacle mtg, cadmium or zinc plated; No. 6-32 thd size	(28835) A610-432-1	4	*	17 17
X2 0		SCREW, MACHINE: receptacle mtg, No. 6-32 thd size; 3/8 in. lg	(28835) A610-432-1	4	*	17 20
9 X2 0	5305-429-1034	STUD, CONTINUOUS THREAD: control panel, 6v, 110v, 1/4-20 thd size; 2 1/4 in. lg	(28835) CW1120A	4	*	17 18
11 X2 0	5935-230-1482	INSULATOR, BUSHING, FIBER: terminal stud	(28835) 1704	4	*	19 5
9 X2 0	5310-017-3771	NUT, PLAIN, HEXAGON: terminal stud, 1/4-20 thd size	(28835) 1704	6	*	19 2
9 X2 0	5305-010-0737	NUT, PLAIN, WING: terminal stud, 1/4-20 thd size	(28835) DW2078	4	*	19 1
X2 0	5307-272-7097	STUD: terminal	(11349) C20534-1	4	*	19 6
X2 0		WASHER, FLAT: terminal stud, 1/4 in. id, 0.031 in. thk	(28835) DW1880	4	*	19 7
9 X2 0	5310-274-8797	WASHER, LOCK: terminal stud, 0.262 in. id, 0.502 in. od, 0.025 in. thk	(28835) DW1880	4	*	19 3
9 X2 0	5310-011-4604	WASHER, NONMETALLIC: terminal stud, fiber, 33/64 in. id, 1 1/8 in. od, 1/2 in. thk	(28835) A25	8	*	19 4
4410 - SWITCHING, TIMING AND SPEED CONTROL						
X2 0	2910-458-7963	ARM, BUTTERFLY CONTROL, CARBURETOR	(28835) 5CW779	1	*	20 2
X2 0	2910-447-4280	CHAIN ASSEMBLY: engine idle	(28835) 5CW702	1	*	20 8
P1 0	2920-354-2387	COIL ASSEMBLY, IDLING CONTROL	(28835) 5CW3209	1	*	20 9

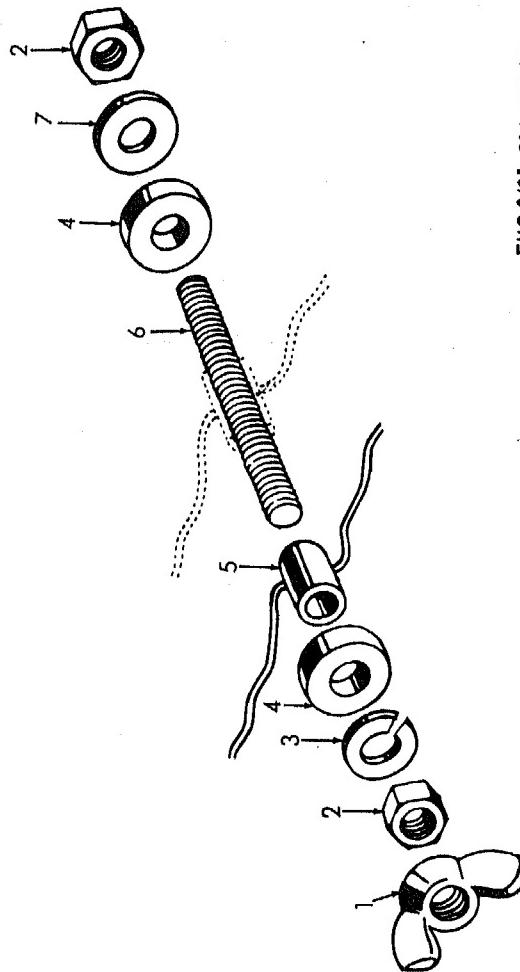


INDEX TO PARTS, FIGURE 18

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4408	NUT	5	4408	WASHER
2	4408	BUS BAR	6	4408	WASHER
3	4408	INSULATOR	7	4408	SCREW
4	4408	WASHER	8	4408	SCREW

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Figure 18. Connecting Device (1).



INDEX TO PARTS, FIGURE 19

Reference Number	Functional Group	Item Name
1	4408	NUT
2	4408	WASHER
3	4408	WASHER
4	4408	WASHER
5	4408	INSULATOR
6	4408	STUD
7	4408	WASHER

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Figure 19. Connecting Device (2).

4410 - SWITCHING, TIMING AND SPEED CONTROL (cont)

SOURCE CODES		FEDERAL STOCK NUMBER		DESCRIPTION		GUIDE QUANTITIES PER MAJOR EQUIPMENTS		ILLUSTRATIONS ITEM NO.
TECHNICAL SERVICE CODES	SOURCE	Maintainance Ability	Recovery Ability	Quantity in Unit	Number of Equipments	15 Days Organizational Maintenance	2nd Ech	
4410 - SWITCHING, TIMING AND SPEED CONTROL (cont)								
11 Y2 0	5950-374-5068	ARM, ROCKER YOKE: solenoid coil	(28835) FW1356	1	*	*	*	
11 P1 0	5950-374-5052	COIL, SOLENOID	(28835) DATA1150	1	*	*	*	
10 X2 0	5325-264-1213	GROMMET, RUBBER: solenoid cover, electrical wire, 3/8 in. id. 11/16 in. od. 7/64 in. thk	(28835) FW1422	1	*	*	*	
X2 0		GUIDE, PLUNGER	(28835) FW954A	1	*	*	*	
M 0		INSULATOR: solenoid coil to yoke	(28835) 5CW3251	1				
10 P 0	5970-238-4842	MANUFACTURE FROM: INSULATION SHEET, ELECTRICAL (2 in. x 4 in. required)	(28835) FW1357	See Group 9501				
11 X2 0	5970-312-0704	INSULATOR, SOLENOID PLUNGER	(28835) C193-012-27	1	*	*	*	
X2 0	5310-886-0496	NUT, SHEET SPRING: pivot pin	(28835) FW1361A	1	*	*	*	
11 X2 0	5950-374-5069	PIN, STRAIGHT, HEADLESS: solenoid coil	(28835) 5CM3116	1	*	*	*	
X2 0		PLATE, COVER: magnetic yoke, back	(28835) 5CW3217	1	*	*	*	
X2 0		PLATE, COVER: magnetic yoke, front	(28835) FW1363	1	*	*	*	
11 X2 0	5950-374-5070	PLUNGER, SOLENOID	(28835) 100MS32	1	*	*	*	
9 X2 0	5320-010-4085	RIVET, SOLID: solenoid coil, 1/4 in. dia, 1 in. lg	(28835) 100MS32	1	*	*	*	
9 X2 0	5305-010-0742	SCREW, MACHINE: insulator mtg, No. 6-32 thd size; 1 in. lg	(28835) 100MS32	1	*	*	*	
9 X2 0	5305-016-0448	SCREW, TAPPING, THREAD FORMING: cover plate mtg, cadmium or zinc plated; No. 6-32 thd size; 1/4 in. lg	(28835) 100MS32	4	*	*	*	
9 X2 0	5305-016-9450	SCREW, TAPPING, THREAD FORMING: plunger stop mtg, cadmium or zinc plated; No. 6-32 thd size; 3/8 in. lg	(28835) CM2209	2	*	*	*	
X2 0		STOP, PLUNGER: solenoid coil	(28835) 5CW3215	1	*	*	*	
11 X2 0	5950-371-5481	SUPPORT, SOLENOID, COIL: magnetic	(28835) FW956	1	*	*	*	
X2 0	5330-291-7940	WASHER, NONMETALLIC: fiber, 1 1/8 in. id, 2 1/4 in. od, 1/16 in. thk	(28835) AW1672	2	*	*	*	
11 P1 0	5945-371-5483	WIREWOUND, SWITCH: time delay	(28835) AW334	1	*	*	*	
9 X2 0	5310-275-1706	NUT, PLAIN, HEXAGON: time delay switch mtg, No. 6-32 thd size	(28835) FW9864	1	*	*	*	
11 P1 0	5905-079-5804	RESISTOR, VARIABLE: multi-range	(28835) AW337	3	*	*	*	
X2 0		BRACKET: handwheel mtg	(28835) AW437	1	*	*	*	
X1		BRACKET: rear plug mtg	(28835) AW459	4	*	*	*	
X1		3432-447-4197	CATCH, BALL FRICTION, CONTACT RING	(28835) AW465	1	*	*	
X2 0		CATCH: rheostat	(28835) W799C10	4				
X1		5340-374-5204	CLIP, SPRING TENSION: multi-range switch	(0409) 4239	1	*	*	
X2 0		5935-258-4660	CONNECTOR, RECEPTACLE, ELECTRICAL: 2 contacts	(28835) AW156	2	*	*	
11 P1 0	5930-374-5039	CONTACT, ELECTRICAL	(28835) AW306	1	*	*	*	
11 P1 0	5945-429-0929	CONTACT, ELECTRICAL: multi-range switch	(28835) AW431	1	*	*	*	
X2 0		DISC, SWITCH, FRONT	(28835) AW212	1	*	*	*	
X2 0	5340-387-9438	HANDBRAKE: multi-range switch	(28835) AW623	1	*	*	*	
X1		HOUSING: internal, multi-range switch	(28835) AW307	2	*	*	*	
X2 0	5970-447-4194	INSULATOR, CONTACT FINGER SCREW	(28835) AW307	2	*	*	*	
9 X2 0	5310-275-1706	NUT, PLAIN, HEXAGON: remote control plug, No. 6-32 thd size	(28835) AW575	1	*	*	*	
9 X2 0	5310-655-9544	NUT, PLAIN, HEXAGON: resistance element mtg, 3/8-16 thd size	(28835) AW575	1	*	*	*	
9 X2 0	5355-429-0935	PLATE, DIAL: multi-range switch	(28835) AW575	1	*	*	*	

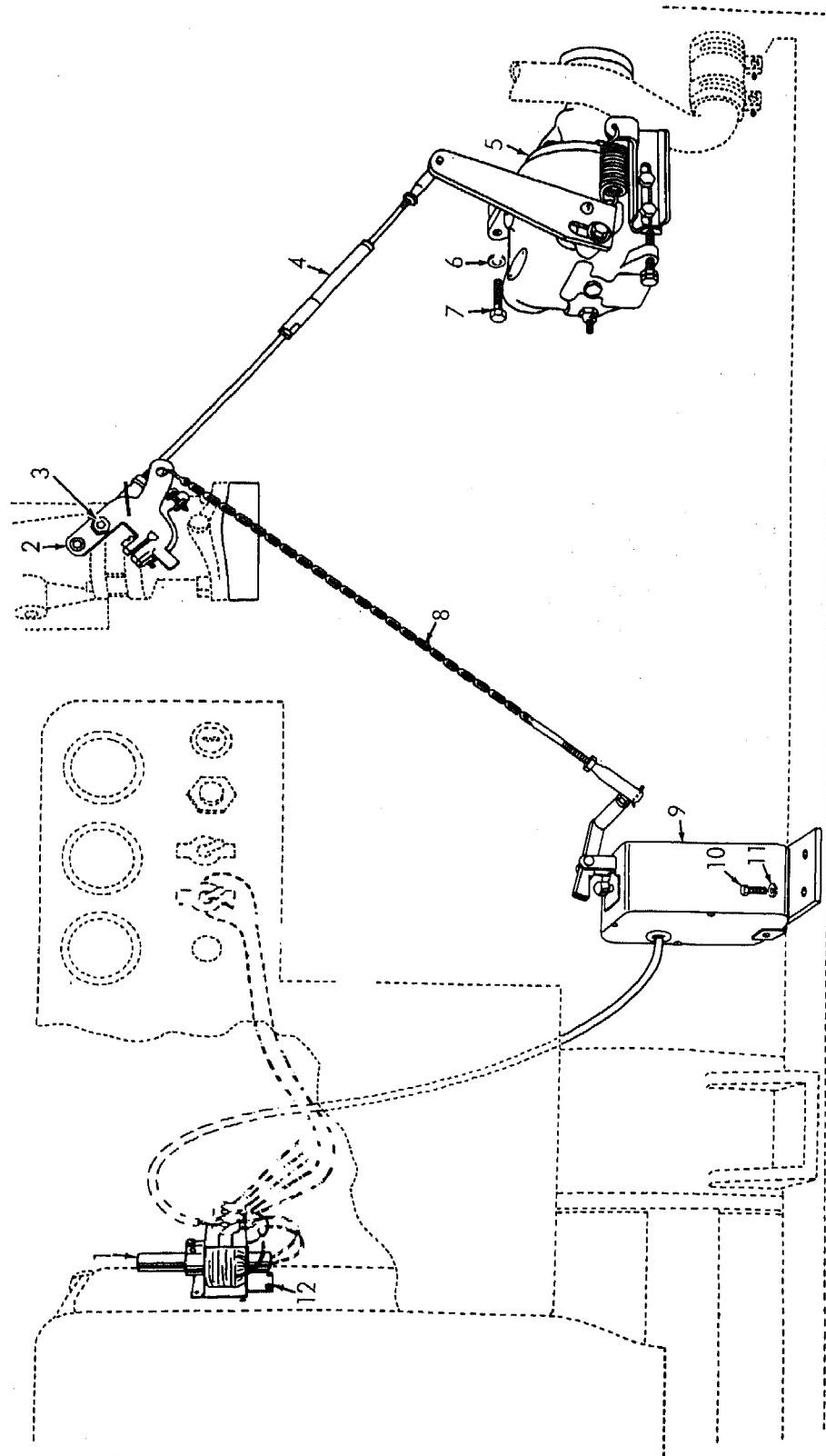


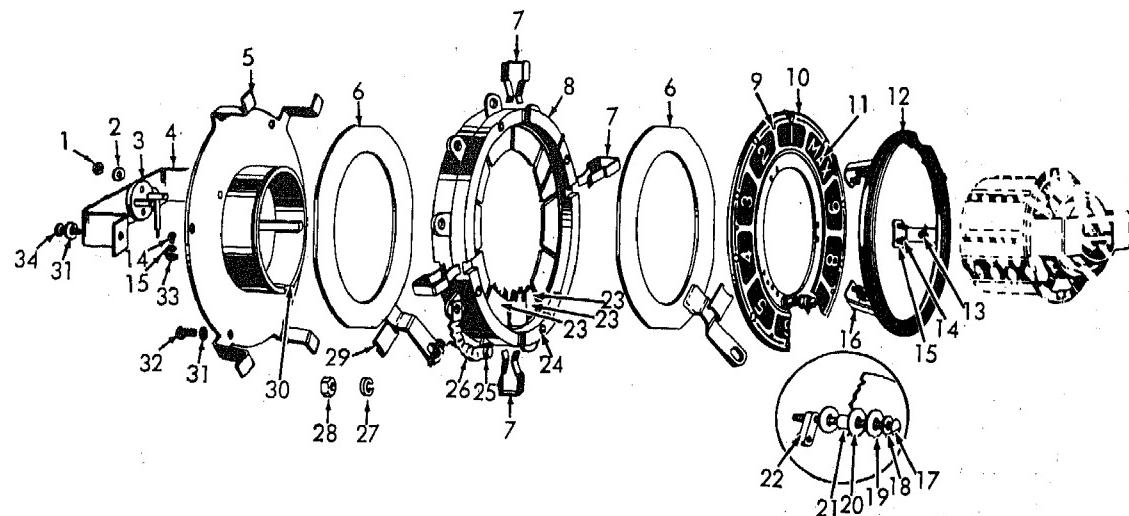
Figure 20. Switching and Speed Controls.

INDEX TO PARTS, FIGURE 20

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4410	MERCURY	4	0308	ROD	7	0308	BOLT
2	4410	ARM	5	0308	GOVERNOR	8	4410	CHAIN AY
3	0308	NUT	6	0308	WASHER	9	4410	COIL AY
								SCREW
								WASHER
								SCREW
								WASHER
								SCREW
								WASHER
								SCREW
								WASHER

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SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS. TRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. NO.	ITEM NO.	
SOURCE	TECHNICAL SERVICE	MaintenancE	RECOVERY	ABILITY	OF ISSUE	EXPENDA-BILITY	INCORPORATED IN UNIT
4410 - SWITCHING, TIMING AND SPEED CONTROL (cont.)							
11 X2 0	5970-308-2814	PLATE, INSULATION, RANGE SWITCH	(28835) AW929	2	*	*	21 29
11 X2 0	5905-447-4196	RESISTANCE ELEMENT	(28835) AW335	1	*	*	21 26
11 X1	5930-447-4251	RING, CONTACT	(28835) DW870A	1			21 6
X1	3431-387-9466	RING, CONTACT CONTROL	(28835) DW859	1			21 8
9 X2 0	5305-010-6974	SCREW, CAP, HEXAGON HEAD: resistance element mtg, 3/8-16 thd size; 1/2 in. lg					
9 X2 0	5205-011-3941	SCREW, MACHINE: contact finger mtg, 1/4-20 thd size; 1 1/4 in. lg					
9 X2 0	5305-011-0499	SCREW, MACHINE: handwheel bracket mtg and rheostat catch, No. 10-24 thd size; 3/8 in. lg					
9 X2 0	5305-695-1344	SCREW, MACHINE: internal housing mtg, 1/4-20 thd size; 5/8 in. lg					
9 X2 0	5305-275-9837	SCREW, MACHINE: rear panel and bracket mtg, 1/4-20 thd size; 3/8 in. lg					
9 X2 0	5305-042-6632	SCREW, TAPPING, THREAD FORMING: dial mtg, cadmium or zinc plated; No. 4-24 thd size; 3/16 in. lg					
9 X2 0	5305-167-2327	SCREW, TAPPING, THREAD FORMING: handwheel bracket mtg, cadmium or zinc plated; No. 8-18 thd size; 1/2 in. lg					
9 X2 0	5310-186-7358	WASHER, FLAT: rheostat catch, brass; 0.187 in. id, 0.375 in. od, 0.049 in. thk	(28835) B130	1	*	*	21 17
9 X2 0	5310-010-3319	WASHER, LOCK: contact finger mtg, cadmium or zinc plated; 0.255 in. id, 0.493 in. od, 0.062 in. thk		2	*	*	21 14
9 X2 0	5310-017-4916	WASHER, LOCK: contact finger mtg, cadmium or zinc plated; 0.262 in. id, 0.742 in. od, 0.036 in. thk		2	*	*	21 32
9 X2 0	5310-010-6497	WASHER, LOCK: handwheel bracket mtg and rheostat catch, 0.194 in. id, 0.337 in. od, 0.047 in. thk		2	*	*	21 34
9 X2 0	5310-010-5319	WASHER, LOCK: internal housing mtg, rear bracket mtg, contact finger, 0.255 in. id, 0.493 in. od, 0.062 in. thk		7	*	*	21 15
9 X2 0	5310-010-6495	WASHER, LOCK: remote control plug, 0.141 in. id, 0.253 in. od, 0.031 in. thk		8	*	*	21 18
9 X2 0	5310-261-7340	WASHER, LOCK: resistance element mtg, 0.382 in. id, 0.689 in. od, 0.094 in. thk		2	*	*	21 2
Y2 0	5330-447-4192	WASHER, NONMETALLIC: fiber; 25/64 in. id, 5/8 in. od, 1/8 in. thk	(28835) AK1074	4	*	*	21 27
9 X2 0	5305-261-1622	SCREW, CAP, HEXAGON HEAD: solenoid coil mtg, 1/4-20 thd size; 3/4 in. lg		2	*	*	21 20
9 X2 0	5305-010-0737	SCREW, MACHINE: time delay switch mtg, No. 6-32 thd size; 3/8 in. lg		2	*	*	20 10
9 X2 0	5305-010-9554	SCREW, TAPPING, THREAD FORMING: multi-range and polarity switch mtg, cadmium or zinc plated; 1/4-26 thd size; 3/8 in. lg		6	*	*	20 12
11 P1 0	5930-258-5541	SWITCH, TOGGLE: idle device	(28835) FW1312	1	See Group 9901	17 14	
11 P1 0	5930-272-1382	SWITCH, TOGGLE: polarity multi-switch top mtg, 0.262 in. id, 0.742 in. od, 0.036 in. thk	(28835) AW794	1	*	*	16 15
9 X2 0	5310-017-3124	WASHER, LOCK: multi-screw top mtg, 0.262 in. id, 0.742 in. od, 0.036 in. thk		2	*	*	20 11
9 X2 0	5310-010-3319	WASHER, LOCK: solenoid coil mtg, 0.255 in. id, 0.493 in. od, 0.062 in. thk		2	*	*	20 11
9 X2 0	5310-010-6495	WASHER, LOCK: time delay switch mtg, 0.141 in. id, 0.253 in. od, 0.031 in. thk		2	*	*	

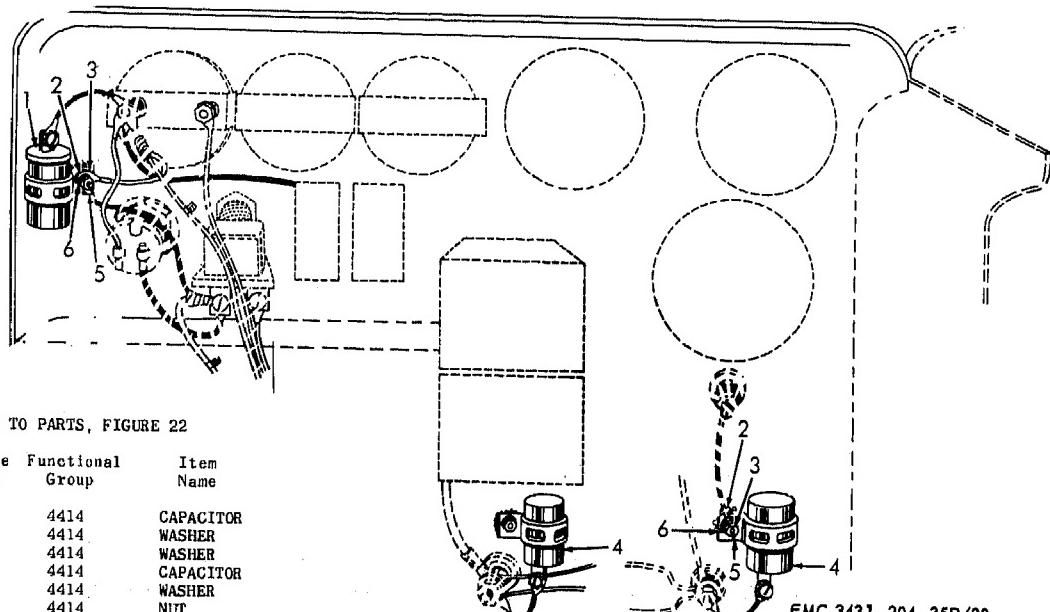


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Figure 21. Multirange Switch.

INDEX TO PARTS, FIGURE 21

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4410	NUT	13	4410	SCREW	24	4410	CATCH
2	4410	WASHER	14	4410	SCREW	25	4410	SCREW
3	4410	CONNECTOR	15	4410	WASHER	26	4410	RESISTING ELEMENT
4	4410	BRACKET	16	4410	BRACKET	27	4410	WASHER
5	4410	HOUSING	17	4410	SCREW	28	4410	NUT
6	4410	RING	18	4410	WASHER	29	4410	PLATE
7	4410	CLIP	19	4410	WASHER	30	4410	CATCH
8	4410	RING	20	4410	WASHER	31	4410	WASHER
9	4410	DISC	21	4410	WASHER	32	4410	SCREW
10	4410	PLATE	22	4410	INSULATOR	33	4410	WASHER
11	4410	SCREW	23	4410	CONTACT	34	4410	SCREW
12	4410	HANDWHEEL			CONTACT			



EMC 3431-204-35P/38

Figure 22. Radio Interference Suppression.

TM 5-3431-204-20P									
SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS-TRATIONS		
			OF ISSUE	EXPERIMENTAL ABILITY	INVENTORY IN SIGHT	ITEM NO.			
		4702 - GAGES, MOUNTINGS, LINES AND FITTINGS (cont)							
P1	0	6620-430-5727 GAGE, PRESSURE DIAL INDICATING: oil 6680-406-2997 INDICATOR, LIQUID QUANTITY: fuel, rocker type	(28835) DW6080		15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.			
11	P1	0	6695-447-4234 THERMOMETER, INDICATING, CAPILLARY TUBE AND BULB: 100-220° TUBE, COPPER: oil gage to engine	"B" (28835) DW3224 (28835) DW1781	2ND ECH				
M	0		MANUFACTURE FROM: INVERTED NUT, TUBE COUPLING: 1/4 in. od tube; 7/16-24 thd size TUBE, COPPER (19 in. required)		1-5 EQP	6-10 EQP			
X2	0	4730-142-1593 P	4710-277-5525	FT	See Group 9501				
			GROUP 76 - FIRE FIGHTING EQUIPMENT 7603 - FIRE EXTINGUISHERS						
P1	0	4210-708-0031 CYLINDER, CHARGED: for extinguisher, fire, monobromotrifluoromethane, CP3Br: 2.75 lb (GE)							
P1	0	4210-799-3516 SEAL, SELF-LOCKING: for extinguisher, fire, monobromotrifluoromethane, CP3Br (GE)							
			GROUP 95 - GENERAL USE STANDARDIZED PARTS 9501 - BULK MATERIAL						
11	P	0	6145-171-5378 BRAID, WIRE: copper: No. 34 AWG 9 P 0 4720-640-5439 HOSE, RUBBER: 1 1/2 in. id		FT				
10	P	0	5970-238-4842 INSULATION SHEET, ELECTRICAL: 0.025 in. thick, 51 in. w, 73 in. lg		FT				
P	P	0	5330-233-5847 PAPER, GASKET: 36 in. w, 1/16 in. thick (GE)		SH				
P	P	0	4710-277-5525 TUBE, COPPER: 0.250 in. dia		YD				
			GROUP 99 - PARTS PECULIAR 9901 - PARTS PECULIAR WITH MORE THAN ONE APPLICATION		FT				
X2	0		ADAPTER	(28835) DW6327	10	*	*		
11	P	0	5910-161-6876 CAPACITOR, FIXED, PAPER DIELECTRIC: 0.1 uf, 100v, dc		4	(1)	(1)		
11	P1	0	5930-238-5541 SWITCH, TOGGLE		2	*	*		

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By Order of the Secretary of the Army:

EARLE G. WHEELER,
General, United States Army,
Chief of Staff.

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

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USAR: Same as active Army except allowance is one copy to each unit.

For explanation of abbreviations used, see AR 320-50.

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PIN : 025495-000